

Recent References:  
January 1, 2008 to March 31, 2008

National Nuclear Data Center, Brookhaven National Laboratory

Document generated: April 1, 2008

This document lists experimental references added to Nuclear Science References (NSR) during the period January 1, 2008 to March 31, 2008. The first section lists keynumbers and keywords sorted by mass and nuclide. The second section lists all references, ordered by keynumber.

For more information, and access to the most recent NSR updates, please visit the NSR web site at <http://www.nndc.bnl.gov/nsr/>.

## Contents

<b>Keynumbers and Keywords</b>	<b>2</b>
<b>References</b>	<b>336</b>

## Keynumbers and Keywords

### A=1

<sup>1</sup> n	2007FI16	NUCLEAR REACTIONS <sup>1</sup> H(polarized n, p), E=230-590 MeV; measured analyzing powers, polarization of recoil particles; deduced polarization and depolarization coefficients. Nucleon-nucleon scattering and data on spin observables. JOUR PPNLA 4 503
<sup>1</sup> H	2006TAZT	NUCLEAR REACTIONS <sup>1</sup> H( <sup>32</sup> Mg, <sup>32</sup> Mg'), E=56 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, particle angular distributions. <sup>32</sup> Mg(p, p'); inverse kinematics. CONF Tokyo (SENUF 06), P153, Takeuchi
	2007EL10	NUCLEAR REACTIONS <sup>1</sup> H( <sup>28</sup> Ne, <sup>28</sup> Ne'), ( <sup>28</sup> Ne, <sup>27</sup> Ne), E=51.3 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>27,28</sup> Ne; deduced level energies. JOUR ZSTNE 150 99
	2007ST29	NUCLEAR REACTIONS <sup>1</sup> H(polarized d, d), E=130 MeV; measured cross sections, angular distributions, vector and tensor analyzing powers. JOUR PRVCA 76 057001
	2008BR01	NUCLEAR REACTIONS <sup>1</sup> H(polarized n, n), E=12 MeV; measured analyzing power A $y(\theta)$ and compared with various model predictions. JOUR PYLBB 660 161
	2008LA01	NUCLEAR REACTIONS <sup>1</sup> H, <sup>12</sup> C( <sup>10</sup> Be, <sup>10</sup> Be), E=39.1 MeV / nucleon; <sup>1</sup> H, <sup>12</sup> C( <sup>11</sup> Be, <sup>11</sup> Be), E=38.4 MeV / nucleon; measured $\sigma(\theta)$ . Comparison with optical models including a virtual coupling potential. JOUR PYLBB 658 198
	2008PE02	NUCLEAR REACTIONS <sup>1</sup> H( <sup>18</sup> Ne, <sup>18</sup> Ne), ( <sup>18</sup> Ne, <sup>18</sup> Ne'), E=66 MeV; measured $\sigma(\theta)$ , proton spectra. <sup>19</sup> Na deduced levels, J, $\pi$ . Microscopic cluster model and R-matrix analysis. JOUR PYLBB 659 864

### A=2

<sup>2</sup> n	2007CL04	NUCLEAR REACTIONS <sup>2</sup> H, <sup>12</sup> C, <sup>27</sup> Al, <sup>63</sup> Cu, <sup>197</sup> Au(e, e'π $^+$ ), E=4.021-5.767 GeV; measured electron and pion energies. Deduced nuclear transparency. JOUR PRLTA 99 242502
	2007SU25	NUCLEAR REACTIONS <sup>4</sup> He(K $^-$ , d), E at rest; measured particle spectra, particle-particle coincidences, Ad correlation analysis. JOUR PRVCA 76 068202
	2007TE12	NUCLEAR REACTIONS <sup>2</sup> H( <sup>8</sup> He, <sup>3</sup> He), E≈ 25 MeV / nucleon; measured <sup>3</sup> He, <sup>3</sup> H energies, yields and coincidences. Deduced <sup>7</sup> H missing mass spectrum, limit for the reaction exit channel populating a resonance lying 0-3 MeV above decay threshold. <sup>4</sup> He( <sup>6</sup> He, 2 $\alpha$ ), E=25 MeV / nucleon; measured E $\alpha$ , I $\alpha$ , $\alpha\alpha$ -coin, angular and momentum distributions. Deduced cross section. JOUR ZSTNE 150 61
<sup>2</sup> H	2007AT06	NUCLEAR REACTIONS <sup>2</sup> H(n, n), E=low; measured ultra cold neutron production cross sections. JOUR PRLTA 99 262502
	2007EL10	NUCLEAR REACTIONS <sup>1</sup> H( <sup>28</sup> Ne, <sup>28</sup> Ne'), ( <sup>28</sup> Ne, <sup>27</sup> Ne), E=51.3 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>27,28</sup> Ne; deduced level energies. JOUR ZSTNE 150 99
	2007FR24	NUCLEAR REACTIONS <sup>2</sup> H(n, n'), E=thermal; measured ultracold neutron yield. JOUR ZAANE 34 119

**A=2 (continued)**

2008LI03	NUCLEAR REACTIONS $^1\text{H}(^8\text{Li}, ^7\text{Li})$ , E=39.8 MeV; measured particle energies and yields. ${}^8\text{Li}(\text{p}, \text{d})$ , E(cm)=4.0 MeV; deduced cross sections and backward angular distributions. JOUR CPLEE 25 455
2008M002	NUCLEAR REACTIONS $^2\text{H}(^{56}\text{Ni}, ^{56}\text{Ni})$ , E=50 MeV / nucleon; measured deuteron recoil energies and yields. ${}^{56}\text{Ni}$ ; deduced isoscaler giant monopole and giant quadrupole resonance centroids and angular distributions. JOUR PRLTA 100 042501
2008SA03	NUCLEAR REACTIONS $^1\text{H}(^{19}\text{C}, ^{18}\text{C})$ , ( ${}^{19}\text{C}, {}^{16}\text{C}$ ), ( ${}^{17}\text{C}, {}^{16}\text{C}$ ), E=70 MeV / nucleon; measured $\sigma$ , $\sigma(\theta)$ , relative energy spectra. ${}^{17,19}\text{C}$ deduced level energies, J, $\pi$ using DWBA analysis. JOUR PYLBB 660 320

**A=3**

${}^3\text{n}$	2008SA01	NUCLEAR REACTIONS ${}^4\text{He}(\text{K}^-, \text{p})$ , E at rest; measured charged-particle and proton momenta spectra and missing mass spectrum; deduced upper limit for a strange tribaryon state. JOUR PYLBB 659 107
${}^3\text{H}$	2008XI03	NUCLEAR REACTIONS ${}^3\text{H}(\text{p}, \text{p})$ , E=1.4-3.4 MeV; measured proton energies, yields, $\sigma$ at backward angle. JOUR NIMBE 266 705
${}^3\text{He}$	2007AN34	NUCLEAR REACTIONS ${}^4\text{He}(\pi^-, \pi^-)$ , ( $\pi^-, \pi^-\gamma$ ), ( $\pi^-, \pi^-n$ ), E=106 MeV; measured $E_\gamma$ , $I_\gamma$ , $\sigma(\theta)$ , branching ratios using a streamer chamber. JOUR ZAANE 34 255
	2007ES07	NUCLEAR MOMENTS ${}^3\text{He}$ ; measured precessional frequency in magnetic field; deduced dressed spin effects of polarized ${}^3\text{He}$ . Proposed measurement for neutron electric dipole moment. JOUR PRVCA 76 051302
	2008AM01	NUCLEAR REACTIONS Fe, Ni(p, X) ${}^3\text{He}$ / ${}^4\text{He}$ / ${}^{21}\text{Ne}$ / ${}^{22}\text{Ne}$ / ${}^{36}\text{Ar}$ / ${}^{38}\text{Ar}$ , E < 1.6 GeV; measured cross sections and excitation functions. JOUR NIMBE 266 2
	2008IM01	NUCLEAR REACTIONS ${}^2\text{H}(\text{d}, \text{n})$ , E not given; measured muon-catalyzed fusion neutron emission time spectra. JOUR PYLBB 658 120

**A=4**

${}^4\text{H}$	2008SA03	NUCLEAR REACTIONS ${}^1\text{H}(^{19}\text{C}, {}^{18}\text{C})$ , ( ${}^{19}\text{C}, {}^{16}\text{C}$ ), ( ${}^{17}\text{C}, {}^{16}\text{C}$ ), E=70 MeV / nucleon; measured $\sigma$ , $\sigma(\theta)$ , relative energy spectra. ${}^{17,19}\text{C}$ deduced level energies, J, $\pi$ using DWBA analysis. JOUR PYLBB 660 320
${}^4\text{He}$	2007AN34	NUCLEAR REACTIONS ${}^4\text{He}(\pi^-, \pi^-)$ , ( $\pi^-, \pi^-\gamma$ ), ( $\pi^-, \pi^-n$ ), E=106 MeV; measured $E_\gamma$ , $I_\gamma$ , $\sigma(\theta)$ , branching ratios using a streamer chamber. JOUR ZAANE 34 255
	2007SC46	NUCLEAR REACTIONS ${}^4\text{He}({}^9\text{Be}, {}^9\text{Be})$ , E=30 MeV; ${}^4\text{He}({}^{18}\text{O}, {}^{18}\text{O})$ , E=56 MeV; measured elastic scattering excitation functions. JOUR ZSTNE 150 53

**A=4 (*continued*)**

2008AM01 NUCLEAR REACTIONS Fe, Ni(p, X)<sup>3</sup>He / <sup>4</sup>He / <sup>21</sup>Ne / <sup>22</sup>Ne / <sup>36</sup>Ar / <sup>38</sup>Ar, E < 1.6 GeV; measured cross sections and excitation functions. JOUR NIMBE 266 2

**A=5**

No references found

**A=6**

<sup>6</sup>He 2007MU17 NUCLEAR MOMENTS <sup>6,8</sup>He; measured isotope shifts. <sup>6,8</sup>He; Deduced nuclear charge radii. JOUR PRLTA 99 252501

<sup>6</sup>Li 2008YA05 NUCLEAR REACTIONS <sup>6,7</sup>Li(<sup>7</sup>Li, <sup>7</sup>Be), E=455 MeV; measured charged particle spectra, (particle)(particle)-coin, branching ratios. <sup>6,7</sup>He; measured decay channels, dipole resonances for charged particle decay. JOUR PRVCA 77 021303

<sup>6</sup>Li 2007NA31 NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

<sup>6</sup>Be 2008CU01 error - unable to convert to LaTex : Illegal close bracket JOUR PRVCA 77 021301

**A=7**

<sup>7</sup>H 2007CA47 NUCLEAR REACTIONS <sup>12</sup>C(<sup>8</sup>He, <sup>7</sup>H), E=15.4 MeV / nucleon; measured production  $\sigma(\theta)$ . <sup>7</sup>H; deduced resonance parameters. JOUR ZSTNE 150 9

<sup>7</sup>H 2007TE12 NUCLEAR REACTIONS <sup>2</sup>H(<sup>8</sup>He, <sup>3</sup>He), E ≈ 25 MeV / nucleon; measured <sup>3</sup>He, <sup>3</sup>H energies, yields and coincidences. Deduced <sup>7</sup>H missing mass spectrum, limit for the reaction exit channel populating a resonance lying 0-3 MeV above decay threshold. <sup>4</sup>He(<sup>6</sup>He, 2 $\alpha$ ), E=25 MeV / nucleon; measured E $\alpha$ , I $\alpha$ ,  $\alpha\alpha$ -coin, angular and momentum distributions. Deduced cross section. JOUR ZSTNE 150 61

**A=7 (continued)**

<sup>7</sup> He	2008YA05	NUCLEAR REACTIONS <sup>6,7</sup> Li( <sup>7</sup> Li, <sup>7</sup> Be), E=455 MeV; measured charged particle spectra, (particle)(particle)-coin, branching ratios. <sup>6,7</sup> He; measured decay channels, dipole resonances for charged particle decay. JOUR PRVCA 77 021303
<sup>7</sup> Li	2007BR30	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>6</sup> Li, <sup>6</sup> Li), E=60 MeV; measured charged particle spectra, branching ratios, $\alpha\alpha$ -correlations. <sup>7</sup> Li, <sup>9</sup> Be; deduced excitation energies. JOUR PRVCA 76 054605
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008AR01	RADIOACTIVITY <sup>7</sup> Be(EC); measured solar neutrino spectrum with the Borexino detector and compared to solar models. JOUR PYLBB 658 101
	2008LI03	NUCLEAR REACTIONS <sup>1</sup> H( <sup>8</sup> Li, <sup>7</sup> Li), E=39.8 MeV; measured particle energies and yields. <sup>8</sup> Li(p, d), E(cm)=4.0 MeV; deduced cross sections and backward angular distributions. JOUR CPLEE 25 455
<sup>7</sup> Be	2007BR32	NUCLEAR REACTIONS <sup>3</sup> He( $\alpha$ , $\gamma$ ) <sup>7</sup> Be, E(cm)=0.33-1.23 MeV; measured $E\gamma$ , $I\gamma$ , cross sections; deduced astrophysical S-factors. JOUR PRVCA 76 055801
	2008AR01	RADIOACTIVITY <sup>7</sup> Be(EC); measured solar neutrino spectrum with the Borexino detector and compared to solar models. JOUR PYLBB 658 101

**A=8**

<sup>8</sup> He	2007MU17	NUCLEAR MOMENTS <sup>6,8</sup> He; measured isotope shifts. <sup>6,8</sup> He; Deduced nuclear charge radii. JOUR PRLTA 99 252501
<sup>8</sup> Li	2007GA58	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>20</sup> Ne, <sup>21</sup> Na), E=63 MeV / nucleon; measured cross sections, $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, ( <sup>21</sup> Na) $\gamma$ -coin, momentum distributions. <sup>21</sup> Na; deduced levels, $J$ , $\pi$ . JOUR PRVCA 76 061302

**A=8 (continued)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Br}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008KA04	NUCLEAR REACTIONS $^2\text{H}({}^9\text{Li}, \text{t})$ , $({}^9\text{Li}, \text{d})$ , E=1.68 MeV / nucleon; measured $\sigma(\theta)$ ; deduced spectroscopic factors. JOUR PYLBB 660 26
$^8\text{Be}$	2007BA75	RADIOACTIVITY ${}^8\text{B}(\beta^+)$ [from ${}^3\text{He}({}^6\text{Li}, \text{n})$ , E=15.5 MeV]; measured delayed $\alpha$ particles, branching ratio to the ground state of ${}^8\text{Be}$ . JOUR PRVCA 76 055806
	2008VI02	RADIOACTIVITY ${}^8\text{Be}$ [from ${}^7\text{Li}(\text{p}, \gamma)$ , E=441 keV]; measured angular distribution of the $e^+e^-$ pairs from the M1 decay of the 17.64 MeV state. Compared results to model calculations and previous measurement. JOUR APOBB 39 483
$^8\text{B}$	2007BA75	RADIOACTIVITY ${}^8\text{B}(\beta^+)$ [from ${}^3\text{He}({}^6\text{Li}, \text{n})$ , E=15.5 MeV]; measured delayed $\alpha$ particles, branching ratio to the ground state of ${}^8\text{Be}$ . JOUR PRVCA 76 055806

**A=9**

$^9\text{He}$	2007G041	NUCLEAR REACTIONS ${}^2\text{H}({}^8\text{He}, \text{p})$ , E=25 MeV / nucleon; measured proton and ${}^8\text{He}$ energies. ${}^9\text{He}$ ; deduced resonance parameters. JOUR ZSTNE 150 23
$^9\text{Li}$	2007MA91	RADIOACTIVITY ${}^9\text{Li}(\beta^-)$ ; measured delayed $E\alpha$ , $I\alpha$ , angular distributions. ${}^9\text{Be}$ deduced decay channels. JOUR ZSTNE 150 137
	2008KA04	NUCLEAR REACTIONS ${}^2\text{H}({}^9\text{Li}, \text{t})$ , $({}^9\text{Li}, \text{d})$ , E=1.68 MeV / nucleon; measured $\sigma(\theta)$ ; deduced spectroscopic factors. JOUR PYLBB 660 26
$^9\text{Be}$	2007BR30	NUCLEAR REACTIONS ${}^9\text{Be}({}^6\text{Li}, {}^6\text{Li})$ , E=60 MeV; measured charged particle spectra, branching ratios, $\alpha\alpha$ -correlations. ${}^7\text{Li}$ , ${}^9\text{Be}$ ; deduced excitation energies. JOUR PRVCA 76 054605
	2007MA91	RADIOACTIVITY ${}^9\text{Li}(\beta^-)$ ; measured delayed $E\alpha$ , $I\alpha$ , angular distributions. ${}^9\text{Be}$ deduced decay channels. JOUR ZSTNE 150 137

**A=9 (continued)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Br}$ ; measured cross sections. JOUR PRVCA 76 064609
2007ONZZ	NUCLEAR REACTIONS $^9\text{Be}(^{18}\text{C}, ^{18}\text{C}')$ , $(^{18}\text{C}, 2\text{n}^{16}\text{C}')$ , E=79 MeV / nucleon; $^9\text{Be}(^{16}\text{C}, ^{16}\text{C}')$ , E=40, 72 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , angular distributions, and lifetimes using the RSM method. $^{18,16}\text{C}$ ; deduced B(E2). REPT RIKEN-NC-NP-16,Ong
2007VE13	NUCLEAR REACTIONS $^9\text{Be}(^7\text{Li}, ^7\text{Li})$ , E=17, 19, 21 MeV; $^9\text{Be}(^7\text{Li}, ^7\text{Li})$ , E=15.75, 24.00, 30.00 MeV; measured elastic scattering $\sigma(\theta)$ . Compared results to optical model calculations. $^9\text{Be}(^7\text{Li}, \text{X})$ , E=15.75, 24.00, 30.00 MeV; measured $E\alpha$ , $I\alpha$ from compound nuclear evaporation, fusion cross sections. JOUR ZSTNE 150 75
2008K002	NUCLEAR REACTIONS $^{12}\text{C}(\text{n}, \text{n}')$ , $(\text{n}, \alpha)$ , E <14.2 MeV; measured $E\alpha$ , $I\alpha$ , $\sigma(\theta)$ . Compared results to model calculations. JOUR JNSTA 45 103
<sup>9</sup> B	2008CU01 error - unable to convert to LaTex : Illegal close bracket JOUR PRVCA 77 021301

**A=10**

<sup>10</sup> Li	2008CH07	NUCLEAR REACTIONS $^9\text{Be}(^{48}\text{Ca}, \text{X})$ , E=60 MeV / nucleon; measured neutron decay energy spectra, (fragment)(neutron)-coin using sequential neutron decay spectroscopy technique. $^{10}\text{Li}$ , $^{12,13}\text{Be}$ , $^{23}\text{O}$ observed unbound states. JOUR NUPAB 801 101
<sup>10</sup> Be	2007MI46	NUCLEAR REACTIONS $^{12,14}\text{C}(^6\text{He}, 2\alpha)$ , E=35 MeV; measured $E\alpha$ , $I\alpha$ , $\alpha\alpha$ -coin. $^{14}\text{C}$ ; deduced level energies. JOUR ZSTNE 150 41

**A=10 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ , measured cross sections. JOUR PRVCA 76 064609
2008TE02	NUCLEAR REACTIONS $^9\text{Be}(^{30}\text{Mg}, ^{29}\text{Mg})$ , E=85.8 MeV / nucleon; $^9\text{Be}(^{32}\text{Mg}, ^{31}\text{Mg})$ , E=75.7 MeV / nucleon; measured $\text{E}_\gamma$ , $\text{I}_\gamma$ , (fragment) $\gamma$ -coin, cross sections; deduced spectroscopic factors. $^{29,31}\text{Mg}$ ; deduced levels, angular momenta, half-lives. Single-particle knockout reaction. JOUR PRVCA 77 014316
$^{10}\text{B}$	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ , measured cross sections. JOUR PRVCA 76 064609
$^{10}\text{C}$	error - unable to convert to LaTex : Illegal close bracket JOUR PRVCA 77 021301

**A=11**

- <sup>11</sup>Be      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,7,8\text{Li}$ ,  $^9,10,11,12\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- <sup>11</sup>B      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,7,8\text{Li}$ ,  $^9,10,11,12\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- <sup>11</sup>C      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,7,8\text{Li}$ ,  $^9,10,11,12\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=12**

<sup>12</sup> Be	2007CH81	NUCLEAR REACTIONS H, <sup>12</sup> C( <sup>12</sup> Be, X), E=50 MeV / nucleon; measured charged particle spectra. <sup>12</sup> Be; measured breakup cross sections for decay modes $\alpha + ^8\text{He}$ , $^6\text{He} + ^6\text{He}$ , $^3\text{H} + ^9\text{Li}$ , p+ <sup>11</sup> Li; deduced excitation energies. JOUR PRVCA 76 064313
	2007MI46	NUCLEAR REACTIONS <sup>12,14</sup> C( <sup>6</sup> He, 2 $\alpha$ ), E=35 MeV; measured E $\alpha$ , I $\alpha$ , $\alpha\alpha$ -coin. <sup>14</sup> C; deduced level energies. JOUR ZSTNE 150 41
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008CH07	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>48</sup> Ca, X), E=60 MeV / nucleon; measured neutron decay energy spectra, (fragment)(neutron)-coin using sequential neutron decay spectroscopy technique. <sup>10</sup> Li, <sup>12,13</sup> Be, <sup>23</sup> O observed unbound states. JOUR NUPAB 801 101
<sup>12</sup> B	2007CL04	NUCLEAR REACTIONS <sup>2</sup> H, <sup>12</sup> C, <sup>27</sup> Al, <sup>63</sup> Cu, <sup>197</sup> Au(e, e'π <sup>+</sup> ), E=4.021-5.767 GeV; measured electron and pion energies. Deduced nuclear transparency. JOUR PRLTA 99 242502
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>12</sup> C	2007B049	NUCLEAR REACTIONS <sup>10</sup> B( <sup>3</sup> He, p), E=2.45 MeV; measured E $\alpha$ , I $\alpha$ from the triple $\alpha$ breakup of <sup>12</sup> C from ground state upto 18 MeV. JOUR ZSTNE 150 207

**A=12 (continued)**

- 2007LA37 NUCLEAR REACTIONS  $^2\text{H}(^{15}\text{N}, n\alpha)$ , E=60 MeV; measured  $^{12}\text{C}$  energies, particle coincidences, momentum.  $^{15}\text{N}(\text{p}, \alpha)^{12}\text{C}$ , E(cm)=19.2-576.0 MeV; deduced angular distributions, excitation functions, astrophysical S-factors using Trojan horse method. JOUR PRVCA 76 065804
- 2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- 2008K002 NUCLEAR REACTIONS  $^{12}\text{C}(\text{n}, \text{n}')$ ,  $(\text{n}, \alpha)$ , E <14.2 MeV; measured  $\text{E}\alpha$ ,  $\text{I}\alpha$ ,  $\sigma(\theta)$ . Compared results to model calculations. JOUR JNSTA 45 103
- 2008LA01 NUCLEAR REACTIONS  $^1\text{H}$ ,  $^{12}\text{C}(^{10}\text{Be}, ^{10}\text{Be})$ , E=39.1 MeV / nucleon;  $^1\text{H}$ ,  $^{12}\text{C}(^{11}\text{Be}, ^{11}\text{Be})$ , E=38.4 MeV / nucleon; measured  $\sigma(\theta)$ . Comparison with optical models including a virtual coupling potential. JOUR PYLBB 658 198
- 2008OH02 NUCLEAR REACTIONS  $^{56}\text{Fe}$ ,  $^{89}\text{Y}$ ,  $^{208}\text{Pb}(\text{n}, \text{n})$ , E=96 MeV; measured  $\sigma(\theta)$ ;  $^{12}\text{C}$ ,  $^{16}\text{O}$ ; systematics, compared with Wick's limit. JOUR PRVCA 77 024605
- $^{12}\text{N}$  2008D002 NUCLEAR REACTIONS  $^{12}\text{C}(\text{p}, \text{n})$ , E=296 MeV; measured cross sections and polarization transfer observables as a function of excitation energy. JOUR JUPSA 77 014201

**A=13**

- $^{13}\text{Be}$  2008CH07 NUCLEAR REACTIONS  $^9\text{Be}(^{48}\text{Ca}, \text{X})$ , E=60 MeV / nucleon; measured neutron decay energy spectra, (fragment)(neutron)-coin using sequential neutron decay spectroscopy technique.  $^{10}\text{Li}$ ,  $^{12,13}\text{Be}$ ,  $^{23}\text{O}$  observed unbound states. JOUR NUPAB 801 101

**A=13 (continued)**

<sup>13</sup> B	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>13</sup> C	2007NA26	NUCLEAR REACTIONS <sup>18</sup> O(n, $\gamma$ ), E=thermal; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, cross sections; deduced levels, J, $\pi$ , configurations, B(E1). <sup>13</sup> C, <sup>17,19</sup> O; systematics. JOUR PRVCA 76 051301
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>13</sup> N	2007CA47	NUCLEAR REACTIONS <sup>12</sup> C( <sup>8</sup> He, <sup>7</sup> H), E=15.4 MeV / nucleon; measured production $\sigma(\theta)$ . <sup>7</sup> H; deduced resonance parameters. JOUR ZSTNE 150 9
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=13 (continued)**

2008ZE01 NUCLEAR REACTIONS  $^{13}\text{C}$ ( $^3\text{He}$ , t), E=420 MeV; measured charged particles,  $\sigma(\theta)$ ; deduced B(GT), levels, J,  $\pi$ .  $^{13}\text{C}$ (p, n); deduced electron capture rates in stellar environments as a function of temperature. JOUR PRVCA 77 024307

**A=14**

$^{14}\text{C}$  2007MI46 NUCLEAR REACTIONS  $^{12,14}\text{C}$ ( $^6\text{He}$ ,  $2\alpha$ ), E=35 MeV; measured Ea, I $\alpha$ ,  $\alpha\alpha$ -coin.  $^{14}\text{C}$ ; deduced level energies. JOUR ZSTNE 150 41

2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

$^{14}\text{N}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=15**

<sup>15</sup> C	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008RE01	NUCLEAR REACTIONS $^{14}\text{C}(\text{n}, \gamma)$ , E=10-1000 keV; measured neutron spectra, neutron flux, $\text{E}\gamma$ , $\text{I}\gamma$ , cross sections; deduced reaction rate. $^{15}\text{C}$ ; measured half-life. JOUR PRVCA 77 015804
<sup>15</sup> N	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>15</sup> O	2007DE61	NUCLEAR REACTIONS $^1\text{H}(^{18}\text{F}, \alpha)$ , E=13.8 MeV; measured $\text{E}\alpha$ , $\text{I}\alpha$ , cross sections. JOUR ZSTNE 150 211
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=16**

<sup>16</sup> C	20070NZZ	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>18</sup> C, <sup>18</sup> C'), ( <sup>18</sup> C, 2n <sup>16</sup> C'), E=79 MeV / nucleon; <sup>9</sup> Be( <sup>16</sup> C, <sup>16</sup> C'), E=40, 72 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , angular distributions, and lifetimes using the RSM method. <sup>18,16</sup> C; deduced B(E2). REPT RIKEN-NC-NP-16,Ong
<sup>16</sup> N	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>16</sup> O	2007AM10	NUCLEAR REACTIONS <sup>12</sup> C( <sup>7</sup> Be, <sup>3</sup> He), E=34 MeV; measured $\sigma$ and angular distributions. JOUR ZSTNE 150 1
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2007RA36	RADIOACTIVITY <sup>18</sup> Ne(2p); measured decay proton energies and yields. JOUR ZSTNE 150 169
	2008C003	NUCLEAR REACTIONS <sup>19</sup> F(p, $\gamma$ ), E(cm)=200-700 keV; measured E $\gamma$ , I $\gamma$ , resonance parameters, interference signs. <sup>20</sup> Ne, <sup>16</sup> O, <sup>19</sup> F; deduced levels, J, $\pi$ . JOUR PRVCA 77 015802
	20080H02	NUCLEAR REACTIONS <sup>56</sup> Fe, <sup>89</sup> Y, <sup>208</sup> Pb(n, n), E=96 MeV; measured $\sigma(\theta)$ ; <sup>12</sup> C, <sup>16</sup> O; systematics, compared with Wick's limit. JOUR PRVCA 77 024605

**A=17**

<sup>17</sup> C	2008SA03	NUCLEAR REACTIONS <sup>1</sup> H( <sup>19</sup> C, <sup>18</sup> C), ( <sup>19</sup> C, <sup>16</sup> C), ( <sup>17</sup> C, <sup>16</sup> C), E=70 MeV / nucleon; measured $\sigma$ , $\sigma(\theta)$ , relative energy spectra. <sup>17,19</sup> C deduced level energies, J, $\pi$ using DWBA analysis. JOUR PYLBB 660 320
	2008SAZZ	NUCLEAR REACTIONS <sup>1</sup> H( <sup>17</sup> C, X), ( <sup>19</sup> C, X), E=70 MeV / nucleon; measured fragment energies, yields, neutron-fragment-coinc, $\sigma(\theta)$ . <sup>17</sup> C, <sup>19</sup> C; deduced levels, J, $\pi$ . REPT RIKEN-NC-NP-18, Satou
<sup>17</sup> N	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>17</sup> O	2007NA26	NUCLEAR REACTIONS <sup>18</sup> O(n, $\gamma$ ), E=thermal; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, cross sections; deduced levels, J, $\pi$ , configurations, B(E1). <sup>13</sup> C, <sup>17,19</sup> O; systematics. JOUR PRVCA 76 051301
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=17 (continued)**

<sup>17</sup>F        2007NA31        NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=18**

<sup>18</sup>C        20070NZZ        NUCLEAR REACTIONS <sup>9</sup>Be(<sup>18</sup>C, <sup>18</sup>C'), (<sup>18</sup>C, 2n<sup>16</sup>C'), E=79 MeV / nucleon; <sup>9</sup>Be(<sup>16</sup>C, <sup>16</sup>C'), E=40, 72 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , angular distributions, and lifetimes using the RSM method. <sup>18,16</sup>C; deduced B(E2). REPT RIKEN-NC-NP-16,Ong

<sup>18</sup>O        2007NA31        NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=18 (*continued*)**

<sup>18</sup> F	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>18</sup> Ne	2007RA36	RADIOACTIVITY <sup>18</sup> Ne(2p); measured decay proton energies and yields. JOUR ZSTNE 150 169

**A=19**

<sup>19</sup> C	2008SA03	NUCLEAR REACTIONS <sup>1</sup> H( <sup>19</sup> C, <sup>18</sup> C), ( <sup>19</sup> C, <sup>16</sup> C), ( <sup>17</sup> C, <sup>16</sup> C), E=70 MeV / nucleon; measured $\sigma$ , $\sigma(\theta)$ , relative energy spectra. <sup>17,19</sup> C deduced level energies, J, $\pi$ using DWBA analysis. JOUR PYLBB 660 320
	2008SAZZ	NUCLEAR REACTIONS <sup>1</sup> H( <sup>17</sup> C, X), ( <sup>19</sup> C, X), E=70 MeV / nucleon; measured fragment energies, yields, neutron-fragment-coinc, $\sigma(\theta)$ . <sup>17</sup> C, <sup>19</sup> C; deduced levels, J, $\pi$ . REPT RIKEN-NC-NP-18, Satou
<sup>19</sup> O	2007NA26	NUCLEAR REACTIONS <sup>18</sup> O(n, $\gamma$ ), E=thermal; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, cross sections; deduced levels, J, $\pi$ , configurations, B(E1). <sup>13</sup> C, <sup>17,19</sup> O; systematics. JOUR PRVCA 76 051301
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=19 (*continued*)**

<sup>19</sup> F	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008C003		NUCLEAR REACTIONS <sup>19</sup> F(p, $\gamma$ ), E(cm)=200-700 keV; measured E $\gamma$ , I $\gamma$ , resonance parameters, interference signs. <sup>20</sup> Ne, <sup>16</sup> O, <sup>19</sup> F; deduced levels, J, $\pi$ . JOUR PRVCA 77 015802
<sup>19</sup> Ne	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>19</sup> Na	2008PE02	NUCLEAR REACTIONS <sup>1</sup> H( <sup>18</sup> Ne, <sup>18</sup> Ne), ( <sup>18</sup> Ne, <sup>18</sup> Ne'), E=66 MeV; measured $\sigma(\theta)$ , proton spectra. <sup>19</sup> Na deduced levels, J, $\pi$ . Microscopic cluster model and R-matrix analysis. JOUR PYLBB 659 864

**A=20**

$^{20}\text{F}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{20}\text{Ne}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008C003	NUCLEAR REACTIONS $^{19}\text{F}(\text{p}, \gamma)$ , E(cm)=200-700 keV; measured $\text{E}_\gamma$ , $\text{I}_\gamma$ , resonance parameters, interference signs. $^{20}\text{Ne}$ , $^{16}\text{O}$ , $^{19}\text{F}$ ; deduced levels, $J$ , $\pi$ . JOUR PRVCA 77 015802

**A=21**

$^{21}\text{F}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
-----------------	----------	---

**A=21 (continued)**

<sup>21</sup> Ne	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008AM01		NUCLEAR REACTIONS Fe, Ni(p, X) <sup>3</sup> He / <sup>4</sup> He / <sup>21</sup> Ne / <sup>36</sup> Ar / <sup>38</sup> Ar, E < 1.6 GeV; measured cross sections and excitation functions. JOUR NIMBE 266 2
<sup>21</sup> Na	2007GA58	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>20</sup> Ne, <sup>21</sup> Na), E=63 MeV / nucleon; measured cross sections, E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, ( <sup>21</sup> Na) $\gamma$ -coin, momentum distributions. <sup>21</sup> Na; deduced levels, J, $\pi$ . JOUR PRVCA 76 061302
2008MU05		ATOMIC MASSES <sup>21,22,23</sup> Na, <sup>22,24</sup> Mg, <sup>37,39</sup> K; measured and evaluated masses using the ISOLTRAP Penning trap mass spectrometer. JOUR ZAANE 35 31

**A=22**

<sup>22</sup> Ne	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008AM01		NUCLEAR REACTIONS Fe, Ni(p, X) <sup>3</sup> He / <sup>4</sup> He / <sup>21</sup> Ne / <sup>36</sup> Ar / <sup>38</sup> Ar, E < 1.6 GeV; measured cross sections and excitation functions. JOUR NIMBE 266 2
2008LI02		RADIOACTIVITY <sup>22</sup> Na( $\beta^+$ ); measured E $\gamma$ , I $\gamma$ . Deduced evidence for temperature dependence of half life for decays in metallic environment. JOUR CPLEE 25 70

**A=22 (*continued*)**

<sup>22</sup> Na	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008LI02	RADIOACTIVITY <sup>22</sup> Na( $\beta^+$ ); measured E $\gamma$ , I $\gamma$ . Dduced evidence for temperature dependence of half life for decays in metallic environment. JOUR CPLEE 25 70
	2008MU05	ATOMIC MASSES <sup>21,22,23</sup> Na, <sup>22,24</sup> Mg, <sup>37,39</sup> K; measured and evaluated masses using the ISOLTRAP Penning trap mass spectrometer. JOUR ZAANE 35 31
<sup>22</sup> Mg	2007HE30	NUCLEAR REACTIONS <sup>1</sup> H( <sup>22</sup> Mg, p), ( <sup>22</sup> Mg, $\gamma$ ), E=4.38 MeV / nucleon; measured Ep, Ip, angular distributions; deduced reaction rate using R-matrix analysis. <sup>23</sup> Al; deduced levels, J, $\pi$ , B(E2), B(M1). <sup>23</sup> Ne; systematics. JOUR PRVCA 76 055802
	2008MU05	ATOMIC MASSES <sup>21,22,23</sup> Na, <sup>22,24</sup> Mg, <sup>37,39</sup> K; measured and evaluated masses using the ISOLTRAP Penning trap mass spectrometer. JOUR ZAANE 35 31

**A=23**

<sup>23</sup> O	2008CH07	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>48</sup> Ca, X), E=60 MeV / nucleon; measured neutron decay energy spectra, (fragment)(neutron)-coin using sequential neutron decay spectroscopy technique. <sup>10</sup> Li, <sup>12,13</sup> Be, <sup>23</sup> O observed unbound states. JOUR NUPAB 801 101
<sup>23</sup> Ne	2007HE30	NUCLEAR REACTIONS <sup>1</sup> H( <sup>22</sup> Mg, p), ( <sup>22</sup> Mg, $\gamma$ ), E=4.38 MeV / nucleon; measured Ep, Ip, angular distributions; deduced reaction rate using R-matrix analysis. <sup>23</sup> Al; deduced levels, J, $\pi$ , B(E2), B(M1). <sup>23</sup> Ne; systematics. JOUR PRVCA 76 055802

**A=23 (continued)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{23}\text{Na}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
2008MU05		ATOMIC MASSES $^{21,22,23}\text{Na}$ , $^{22,24}\text{Mg}$ , $^{37,39}\text{K}$ ; measured and evaluated masses using the ISOLTRAP Penning trap mass spectrometer. JOUR ZAANE 35 31
$^{23}\text{Mg}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{23}\text{Al}$	2007HE30	NUCLEAR REACTIONS $^1\text{H}(^{22}\text{Mg}, \text{p})$ , $(^{22}\text{Mg}, \gamma)$ , E=4.38 MeV / nucleon; measured Ep, Ip, angular distributions; deduced reaction rate using R-matrix analysis. $^{23}\text{Al}$ ; deduced levels, J, $\pi$ , B(E2), B(M1). $^{23}\text{Ne}$ ; systematics. JOUR PRVCA 76 055802

**A=24**

$^{24}\text{Ne}$	2007BE66	NUCLEAR REACTIONS $^{208}\text{Pb}(^{24}\text{Ne}, \text{X})$ , E=7.9 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin. $^{24,25}\text{Ne}$ ; deduced levels. JOUR ZSTNE 150 83
$^{24}\text{Na}$	2007LU19	NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV; $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96m}\text{Tc} / ^{96m}\text{Tc} / ^{102m}\text{Tc} / ^{104}\text{Tc}$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo} / ^{99}\text{Mo} / ^{101}\text{Mo}$ , E=13.5-14.8 MeV; $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured $E\gamma$ , $I\gamma$ , cross sections. JOUR PRVCA 76 057601
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{24}\text{Mg}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008MU05	ATOMIC MASSES $^{21,22,23}\text{Na}$ , $^{22,24}\text{Mg}$ , $^{37,39}\text{K}$ ; measured and evaluated masses using the ISOLTRAP Penning trap mass spectrometer. JOUR ZAANE 35 31
	2008SA04	NUCLEAR REACTIONS $^{24}\text{Mg}(^{24}\text{Mg}, ^{24}\text{Mg}')$ , $^{24}\text{Mg}(^{24}\text{Mg}, \text{X})^{45}\text{Ti}$ / $^{44}\text{Sc} / ^{42}\text{Ca} / ^{41}\text{Ca} / ^{41}\text{K} / ^{39}\text{K} / ^{38}\text{Ar} / ^{37}\text{Ar}$ , E=91.72, 92.62 MeV; measured (fragment) $\gamma$ -, (charged particle) $\gamma$ - and $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of $^{48}\text{Cr}$ discussed. $^{45}\text{Ti}$ deduced levels, $J, \pi$ . JOUR NUPAB 801 1

**A=24 (*continued*)**

$^{24}\text{Al}$  2007VI16 NUCLEAR REACTIONS  $^{24}\text{Mg}(^3\text{He}, \text{t})$ , E=30 MeV / nucleon; measured triton spectra, angular distributions.  $^{24}\text{Al}$ ; deduced resonance energies, reaction rates.  $^{23}\text{Mg}(\text{p}, \gamma)^{24}\text{Al}$ ; resonance parameters. JOUR PRVCA 76 065803

**A=25**

$^{25}\text{Ne}$  2007BE66 NUCLEAR REACTIONS  $^{208}\text{Pb}(^{24}\text{Ne}, \text{X})$ , E=7.9 MeV / nucleon; measured  $E\gamma$ ,  $I\gamma$ , (particle) $\gamma$ -coin.  $^{24,25}\text{Ne}$ ; deduced levels. JOUR ZSTNE 150 83

$^{25}\text{Na}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

$^{25}\text{Mg}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=25 (*continued*)**

- <sup>25</sup>Al      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=26**

- <sup>26</sup>Mg      2007MU20      NUCLEAR REACTIONS <sup>24</sup>Mg(t, p), E=1.65-3.40 MeV; measured  $\sigma(\tau)$ . Deduced resonance parameters. JOUR JNSTA 44 1484
- 2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>26</sup>Al      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=27**

$^{27}\text{Ne}$	2007EL10	NUCLEAR REACTIONS $^1\text{H}(^{28}\text{Ne}, ^{28}\text{Ne}')$ , ( $^{28}\text{Ne}, ^{27}\text{Ne}$ ), E=51.3 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{27,28}\text{Ne}$ ; deduced level energies. JOUR ZSTNE 150 99
	2007GI17	NUCLEAR REACTIONS $^2\text{H}(^{26}\text{Ne}, \text{p})$ , E=9.7 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin. $^{27}\text{Ne}$ ; deduced levels, cross sections, and spectroscopic factors. JOUR ZSTNE 150 161
$^{27}\text{Mg}$	2007CL04	NUCLEAR REACTIONS $^2\text{H}, ^{12}\text{C}, ^{27}\text{Al}, ^{63}\text{Cu}, ^{197}\text{Au}(\text{e}, \text{e}'\pi^+)$ , E=4.021-5.767 GeV; measured electron and pion energies. Deduced nuclear transparency. JOUR PRLTA 99 242502
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}, ^{9,10,11,12}\text{Be}, ^{10,11,12,13}\text{B}, ^{11,12,13,14,15}\text{C}, ^{13,14,15,16,17}\text{N}, ^{15,16,17,18,19}\text{O}, ^{17,18,19,20,21}\text{F}, ^{19,20,21,22,23}\text{Ne}, ^{22,23,24,25}\text{Na}, ^{23,24,25,26,27}\text{Mg}, ^{25,26,27,28,29,30}\text{Al}, ^{28,29,30,31,32}\text{Si}, ^{30,31,32,33,34}\text{P}, ^{32,33,34,35,36,37,38}\text{S}, ^{34,35,36,37,38,39,40}\text{Cl}, ^{36,37,38,39,40,41,42,43}\text{Ar}, ^{39,40,41,42,43,44,45}\text{K}, ^{41,42,43,44,45,46,47}\text{Ca}, ^{43,44,45,46,47,48,49,50}\text{Sc}, ^{45,46,47,48,49,50,51,52}\text{Ti}, ^{46,47,48,49,50,51,52,53,54,55}\text{V}, ^{49,50,51,52,53,54,55,56,57}\text{Cr}, ^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}, ^{55,56,57,58,59,60,61,62}\text{Fe}, ^{57,58,59,60,61,62,63,64,65}\text{Co}, ^{59,60,61,62,63,64,65,66,67}\text{Ni}, ^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}, ^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}, ^{66,67,68,69,70,71,72,73,74,75}\text{Ga}, ^{68,69,70,71,72,73,74,75,76,77}\text{Ge}, ^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}, ^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}, ^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}, ^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr};$ measured cross sections. JOUR PRVCA 76 064609
$^{27}\text{Al}$	2007LI81	NUCLEAR REACTIONS $^{27}\text{Al}(^6\text{He}, ^6\text{He}')$ , E=9.5-13.4 MeV; $^{51}\text{V}(^7\text{Be}, ^7\text{Be}')$ , E=26 MeV; measured reaction cross sections and angular distributions. Compared results to model calculations. JOUR ZSTNE 150 27
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}, ^{9,10,11,12}\text{Be}, ^{10,11,12,13}\text{B}, ^{11,12,13,14,15}\text{C}, ^{13,14,15,16,17}\text{N}, ^{15,16,17,18,19}\text{O}, ^{17,18,19,20,21}\text{F}, ^{19,20,21,22,23}\text{Ne}, ^{22,23,24,25}\text{Na}, ^{23,24,25,26,27}\text{Mg}, ^{25,26,27,28,29,30}\text{Al}, ^{28,29,30,31,32}\text{Si}, ^{30,31,32,33,34}\text{P}, ^{32,33,34,35,36,37,38}\text{S}, ^{34,35,36,37,38,39,40}\text{Cl}, ^{36,37,38,39,40,41,42,43}\text{Ar}, ^{39,40,41,42,43,44,45}\text{K}, ^{41,42,43,44,45,46,47}\text{Ca}, ^{43,44,45,46,47,48,49,50}\text{Sc}, ^{45,46,47,48,49,50,51,52}\text{Ti}, ^{46,47,48,49,50,51,52,53,54,55}\text{V}, ^{49,50,51,52,53,54,55,56,57}\text{Cr}, ^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}, ^{55,56,57,58,59,60,61,62}\text{Fe}, ^{57,58,59,60,61,62,63,64,65}\text{Co}, ^{59,60,61,62,63,64,65,66,67}\text{Ni}, ^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}, ^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}, ^{66,67,68,69,70,71,72,73,74,75}\text{Ga}, ^{68,69,70,71,72,73,74,75,76,77}\text{Ge}, ^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}, ^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}, ^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}, ^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr};$ measured cross sections. JOUR PRVCA 76 064609

**A=28**

$^{28}\text{Ne}$	2007EL10	NUCLEAR REACTIONS $^1\text{H}(^{28}\text{Ne}, ^{28}\text{Ne}')$ , ( $^{28}\text{Ne}, ^{27}\text{Ne}$ ), E=51.3 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{27,28}\text{Ne}$ ; deduced level energies. JOUR ZSTNE 150 99
------------------	----------	--

**A=28 (*continued*)**

<sup>2007ROZY</sup>	RADIOACTIVITY <sup>28,29,30</sup> Ne; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coinc. <sup>28,29,30</sup> Ne; deduced levels, J, $\pi$ . THESIS E Rodriguez-Vieitez, Berkeley University of California
<sup>28</sup> Al	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>28</sup> Si	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2007PA42	NUCLEAR REACTIONS <sup>28</sup> Si( <sup>6</sup> Li, X) <sup>29</sup> Si / <sup>32</sup> S / <sup>29</sup> P / <sup>28</sup> Si, E=9, 13 MeV; measured production cross sections, E $\gamma$ , I $\gamma$ , angular distributions. JOUR PRVCA 76 054601
<sup>28</sup> S	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>37</sup> Ca, X) <sup>36</sup> Ca / <sup>28</sup> S, E=61 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>36</sup> Ca, <sup>28</sup> S; deduced levels. JOUR ZSTNE 150 89

**A=29**

<sup>29</sup> Ne	RADIOACTIVITY <sup>28,29,30</sup> Ne; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coinc. <sup>28,29,30</sup> Ne; deduced levels, J, $\pi$ . THESIS E Rodriguez-Vieitez, Berkeley University of California
<sup>29</sup> Mg	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>30</sup> Mg, <sup>29</sup> Mg), E=85.8 MeV / nucleon; <sup>9</sup> Be( <sup>32</sup> Mg, <sup>31</sup> Mg), E=75.7 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , (fragment) $\gamma$ -coin, cross sections; deduced spectroscopic factors. <sup>29,31</sup> Mg; deduced levels, angular momenta, half-lives. Single-particle knockout reaction. JOUR PRVCA 77 014316

**A=29 (*continued*)**

<sup>29</sup> Al	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>29</sup> Si	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2007PA42	NUCLEAR REACTIONS <sup>28</sup> Si( <sup>6</sup> Li, X) <sup>29</sup> Si / <sup>32</sup> S / <sup>29</sup> P / <sup>28</sup> Si, E=9, 13 MeV; measured production cross sections, E $\gamma$ , I $\gamma$ , angular distributions. JOUR PRVCA 76 054601
<sup>29</sup> P	2007PA42	NUCLEAR REACTIONS <sup>28</sup> Si( <sup>6</sup> Li, X) <sup>29</sup> Si / <sup>32</sup> S / <sup>29</sup> P / <sup>28</sup> Si, E=9, 13 MeV; measured production cross sections, E $\gamma$ , I $\gamma$ , angular distributions. JOUR PRVCA 76 054601

**A=30**

<sup>30</sup> Ne	2007ROZY	RADIOACTIVITY <sup>28,29,30</sup> Ne; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coinc. <sup>28,29,30</sup> Ne; deduced levels, J, $\pi$ . THESIS E Rodriguez-Vieitez, Berkeley University of California
------------------	----------	--

**A=30 (continued)**

- <sup>30</sup>Al      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,7,8\text{Li}$ ,  $^9,10,11,12\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- 2007UE02      RADIOACTIVITY  $^{30,31,32}\text{Al}(\beta^-)$ ; measured magnetic dipole and electric quadrupole moments using the  $\beta$ -NMR method. JOUR ZSTNE 150 185
- <sup>30</sup>Si      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,7,8\text{Li}$ ,  $^9,10,11,12\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- 2007UE02      RADIOACTIVITY  $^{30,31,32}\text{Al}(\beta^-)$ ; measured magnetic dipole and electric quadrupole moments using the  $\beta$ -NMR method. JOUR ZSTNE 150 185
- <sup>30</sup>P      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,7,8\text{Li}$ ,  $^9,10,11,12\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=31**

<sup>31</sup> Mg	2008TE02	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>30</sup> Mg, <sup>29</sup> Mg), E=85.8 MeV / nucleon; <sup>9</sup> Be( <sup>32</sup> Mg, <sup>31</sup> Mg), E=75.7 MeV / nucleon; measured E <sub>&gt;</sub> , I <sub>&gt;</sub> , (fragment) $\gamma$ -coin, cross sections; deduced spectroscopic factors. <sup>29,31</sup> Mg; deduced levels, angular momenta, half-lives. Single-particle knockout reaction. JOUR PRVCA 77 014316
<sup>31</sup> Al	2007UE02	RADIOACTIVITY <sup>30,31,32</sup> Al( $\beta^-$ ); measured magnetic dipole and electric quadrupole moments using the $\beta$ -NMR method. JOUR ZSTNE 150 185
<sup>31</sup> Si	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2007UE02	RADIOACTIVITY <sup>30,31,32</sup> Al( $\beta^-$ ); measured magnetic dipole and electric quadrupole moments using the $\beta$ -NMR method. JOUR ZSTNE 150 185
<sup>31</sup> P	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>31</sup> S	2007WR01	NUCLEAR REACTIONS <sup>31</sup> P( <sup>3</sup> He, t), E=20 MeV; measured charged particle spectra, angular distributions; <sup>31</sup> S; deduced resonance energies, levels, J, $\pi$ , <sup>30</sup> P(p, $\gamma$ ) reaction rates, width parameters, spectroscopic factors. Comparison with <sup>31</sup> P level scheme. JOUR PRVCA 76 052802

**A=32**

$^{32}\text{Mg}$	2006TAZT	NUCLEAR REACTIONS $^1\text{H}(^{32}\text{Mg}, ^{32}\text{Mg}')$ , E=56 MeV / nucleon; measured $\text{E}_\gamma$ , $\text{I}_\gamma$ , $\gamma\gamma$ -coin, particle angular distributions. $^{32}\text{Mg}(\text{p}, \text{p}')$ ; inverse kinematics. CONF Tokyo (SENUF 06), P153, Takeuchi
$^{32}\text{Al}$	2007UE02	RADIOACTIVITY $^{30,31,32}\text{Al}(\beta^-)$ ; measured magnetic dipole and electric quadrupole moments using the $\beta$ -NMR method. JOUR ZSTNE 150 185
$^{32}\text{Si}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2007UE02	RADIOACTIVITY $^{30,31,32}\text{Al}(\beta^-)$ ; measured magnetic dipole and electric quadrupole moments using the $\beta$ -NMR method. JOUR ZSTNE 150 185
$^{32}\text{P}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=32 (*continued*)**

<sup>32</sup> S	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2007PA42	NUCLEAR REACTIONS <sup>28</sup> Si( <sup>6</sup> Li, X) <sup>29</sup> Si / <sup>32</sup> S / <sup>28</sup> Si, E=9, 13 MeV; measured production cross sections, E $\gamma$ , I $\gamma$ , angular distributions. JOUR PRVCA 76 054601

**A=33**

<sup>33</sup> P	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>33</sup> S	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=34**

<sup>34</sup> P	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>34</sup> S	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>34</sup> Cl	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008NA03	NUCLEAR REACTIONS $\text{S}(\alpha, \text{X})^{34}\text{Cl}$ , E=14.2-69.5 MeV; measured $E\gamma$ , $I\gamma$ , thick target saturation yield. $\text{S}(\alpha, \text{X})^{34}\text{Cl}$ , E=14.2-69.5 MeV; Deduced excitation function. JOUR NIMBE 266 709

**A=35**

$^{35}\text{Si}$	2007NE14	RADIOACTIVITY $^{35}\text{Si}(\beta^-)$ ; measured ground state g-factor using the $\beta$ -NMR method. JOUR ZSTNE 150 149
$^{35}\text{P}$	2007NE14	RADIOACTIVITY $^{35}\text{Si}(\beta^-)$ ; measured ground state g-factor using the $\beta$ -NMR method. JOUR ZSTNE 150 149
$^{35}\text{S}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{35}\text{Cl}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=36**

<sup>36</sup> S	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>36</sup> Cl	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>36</sup> Ar	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008AM01	NUCLEAR REACTIONS Fe, Ni(p, X) <sup>3</sup> He / <sup>4</sup> He / <sup>21</sup> Ne / <sup>22</sup> Ne / <sup>36</sup> Ar / <sup>38</sup> Ar, E < 1.6 GeV; measured cross sections and excitation functions. JOUR NIMBE 266 2
<sup>36</sup> Ca	2007BU36	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>37</sup> Ca, X) <sup>36</sup> Ca / <sup>28</sup> S, E=61 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>36</sup> Ca, <sup>28</sup> S; deduced levels. JOUR ZSTNE 150 89

**A=37**

<sup>37</sup> S	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>37</sup> Cl	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>37</sup> Ar	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008SA04	NUCLEAR REACTIONS $^{24}\text{Mg}(^{24}\text{Mg}, ^{24}\text{Mg}')$ , $^{24}\text{Mg}(^{24}\text{Mg}, \text{X})^{45}\text{Ti}$ / $^{44}\text{Sc}$ / $^{42}\text{Ca}$ / $^{41}\text{Ca}$ / $^{41}\text{K}$ / $^{39}\text{K}$ / $^{38}\text{Ar}$ / $^{37}\text{Ar}$ , E=91.72, 92.62 MeV; measured (fragment) $\gamma$ - (charged particle) $\gamma$ - and $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of $^{48}\text{Cr}$ discussed. $^{45}\text{Ti}$ deduced levels, J, $\pi$ . JOUR NUPAB 801 1

**A=37 (continued)**

<sup>37</sup>K      2008MU05      ATOMIC MASSES <sup>21,22,23</sup>Na, <sup>22,24</sup>Mg, <sup>37,39</sup>K; measured and evaluated masses using the ISOLTRAP Penning trap mass spectrometer. JOUR ZAANE 35 31

**A=38**

<sup>38</sup>S      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

<sup>38</sup>Cl      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

<sup>38</sup>Ar      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=38 (*continued*)**

2008AM01	NUCLEAR REACTIONS Fe, Ni(p, X) <sup>3</sup> He / <sup>4</sup> He / <sup>21</sup> Ne / <sup>22</sup> Ne / <sup>36</sup> Ar / <sup>38</sup> Ar, E < 1.6 GeV; measured cross sections and excitation functions. JOUR NIMBE 266 2
2008BL01	NUCLEAR MOMENTS <sup>38,40,41,42,43,44</sup> Ar; measured isotope shifts, hfs; deduced charge radii, J, $\mu$ , quadrupole moment. Fast-beam collinear laser spectroscopy. JOUR NUPAB 799 30
2008SA04	NUCLEAR REACTIONS <sup>24</sup> Mg( <sup>24</sup> Mg, <sup>24</sup> Mg), <sup>24</sup> Mg( <sup>24</sup> Mg, X) <sup>45</sup> Ti / <sup>44</sup> Sc / <sup>42</sup> Ca / <sup>41</sup> Ca / <sup>41</sup> K / <sup>39</sup> K / <sup>38</sup> Ar / <sup>37</sup> Ar, E=91.72, 92.62 MeV; measured (fragment) $\gamma$ -, (charged particle) $\gamma$ - and $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of <sup>48</sup> Cr discussed. <sup>45</sup> Ti deduced levels, J, $\pi$ . JOUR NUPAB 801 1

**A=39**

<sup>39</sup> Cl	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>39</sup> Ar	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=39 (continued)**

- <sup>39</sup>K      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- 2008MU05      ATOMIC MASSES  $^{21,22,23}\text{Na}$ ,  $^{22,24}\text{Mg}$ ,  $^{37,39}\text{K}$ ; measured and evaluated masses using the ISOLTRAP Penning trap mass spectrometer. JOUR ZAANE 35 31
- 2008SA04      NUCLEAR REACTIONS  $^{24}\text{Mg}(^{24}\text{Mg}, ^{24}\text{Mg}')$ ,  $^{24}\text{Mg}(^{24}\text{Mg}, \text{X})^{45}\text{Ti}$  /  $^{44}\text{Sc}$  /  $^{42}\text{Ca}$  /  $^{41}\text{Ca}$  /  $^{39}\text{K}$  /  $^{38}\text{Ar}$  /  $^{37}\text{Ar}$ , E=91.72, 92.62 MeV; measured (fragment) $\gamma$ --, (charged particle) $\gamma$ - and  $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of  $^{48}\text{Cr}$  discussed.  $^{45}\text{Ti}$  deduced levels, J,  $\pi$ . JOUR NUPAB 801 1

**A=40**

- <sup>40</sup>Cl      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=40 (*continued*)**

<sup>40</sup> Ar	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008BL01		NUCLEAR MOMENTS <sup>38,40,41,42,43,44</sup> Ar; measured isotope shifts, hfs; deduced charge radii, J, $\mu$ , quadrupole moment. Fast-beam collinear laser spectroscopy. JOUR NUPAB 799 30
<sup>40</sup> K	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=41**

<sup>41</sup> Cl	2007WH01	RADIOACTIVITY <sup>41</sup> Cl( $\beta^-$ ) [from U(p, X), E=1.4 GeV]; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\beta\gamma\gamma$ -coin, $\beta\gamma(t)$ . <sup>41</sup> Ar; measured half-lives of isomeric states; deduced levels, J, $\pi$ , multipolarities, B(E2), B(M1). JOUR PRVCA 76 057303
------------------	----------	--

**A=41 (*continued*)**

<sup>41</sup> Ar	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2007WH01		RADIOACTIVITY <sup>41</sup> Cl( $\beta^-$ ) [from U(p, X), E=1.4 GeV]; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\beta\gamma\gamma$ -coin, $\beta\gamma(t)$ . <sup>41</sup> Ar; measured half-lives of isomeric states; deduced levels, J, $\pi$ , multipolarities, B(E2), B(M1). JOUR PRVCA 76 057303
2008BL01		NUCLEAR MOMENTS <sup>38,40,41,42,43,44</sup> Ar; measured isotope shifts, hfs; deduced charge radii, J, $\mu$ , quadrupole moment. Fast-beam collinear laser spectroscopy. JOUR NUPAB 799 30
<sup>41</sup> K	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008SA04		NUCLEAR REACTIONS <sup>24</sup> Mg( <sup>24</sup> Mg, <sup>24</sup> Mg'), <sup>24</sup> Mg( <sup>24</sup> Mg, X) <sup>45</sup> Ti / <sup>44</sup> Sc / <sup>42</sup> Ca / <sup>41</sup> Ca / <sup>41</sup> K / <sup>39</sup> K / <sup>38</sup> Ar / <sup>37</sup> Ar, E=91.72, 92.62 MeV; measured (fragment) $\gamma$ -, (charged particle) $\gamma$ - and $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of <sup>48</sup> Cr discussed. <sup>45</sup> Ti deduced levels, J, $\pi$ . JOUR NUPAB 801 1

**A=41 (continued)**

<sup>41</sup> Ca	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008SA04	NUCLEAR REACTIONS <sup>24</sup> Mg( <sup>24</sup> Mg, <sup>24</sup> Mg'), <sup>24</sup> Mg( <sup>24</sup> Mg, X) <sup>45</sup> Ti / <sup>44</sup> Sc / <sup>42</sup> Ca / <sup>41</sup> Ca / <sup>39</sup> K / <sup>38</sup> Ar / <sup>37</sup> Ar, E=91.72, 92.62 MeV; measured (fragment) $\gamma$ -, (charged particle) $\gamma$ - and $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of <sup>48</sup> Cr discussed. <sup>45</sup> Ti deduced levels, J, $\pi$ . JOUR NUPAB 801 1

**A=42**

<sup>42</sup> Ar	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008BL01	NUCLEAR MOMENTS <sup>38,40,41,42,43,44</sup> Ar; measured isotope shifts, hfs; deduced charge radii, J, $\mu$ , quadrupole moment. Fast-beam collinear laser spectroscopy. JOUR NUPAB 799 30

**A=42 (continued)**

<sup>42</sup> K	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>42</sup> Ca	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008SA04		NUCLEAR REACTIONS <sup>24</sup> Mg( <sup>24</sup> Mg, <sup>24</sup> Mg'), <sup>24</sup> Mg( <sup>24</sup> Mg, X) <sup>45</sup> Ti / <sup>44</sup> Sc / <sup>42</sup> Ca / <sup>41</sup> Ca / <sup>41</sup> K / <sup>39</sup> K / <sup>38</sup> Ar / <sup>37</sup> Ar, E=91.72, 92.62 MeV; measured (fragment) $\gamma$ -, (charged particle) $\gamma$ - and $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of <sup>48</sup> Cr discussed. <sup>45</sup> Ti deduced levels, J, $\pi$ . JOUR NUPAB 801 1
<sup>42</sup> Ti	2008MI03	RADIOACTIVITY <sup>45</sup> Fe(2p), ( $\beta^+$ p), ( $\beta^+$ 2p), ( $\beta^+$ 3p); measured Ep, Ip, delayed proton angular and energy correlations. JOUR APOBB 39 477

**A=43**

<sup>43</sup> Ar	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008BL01		NUCLEAR MOMENTS <sup>38,40,41,42,43,44</sup> Ar; measured isotope shifts, hfs; deduced charge radii, J, $\mu$ , quadrupole moment. Fast-beam collinear laser spectroscopy. JOUR NUPAB 799 30
<sup>43</sup> K	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>43</sup> Ca	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=43 (continued)**

<sup>43</sup> Sc	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008FE02		NUCLEAR REACTIONS <sup>126</sup> Te( <sup>18</sup> O, 4n), ( <sup>18</sup> O, 5n), E=75 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>139,140</sup> Nd deduced level energies, J, $\pi$ , T <sub>1/2</sub> . <sup>27</sup> Al( <sup>18</sup> O, 2n), E=75 MeV; measured E $\gamma$ , I $\gamma$ . <sup>43</sup> Sc; measured half-life of isomeric state. ALTO facility. JOUR ZAANE 35 167
<sup>43</sup> V	2008MI03	RADIOACTIVITY <sup>45</sup> Fe(2p), ( $\beta^+$ p), ( $\beta^+$ 2p), ( $\beta^+$ 3p); measured Ep, Ip, delayed proton angular and energy correlations. JOUR APOBB 39 477
<sup>43</sup> Cr	2007MI40	RADIOACTIVITY <sup>45</sup> Fe(2p) [from Ni( <sup>58</sup> Ni, X), E=161 MeV / nucleon]; measured proton energies, angular correlations, branching ratio, and half-life. JOUR PRLTA 99 192501
	2008MI03	RADIOACTIVITY <sup>45</sup> Fe(2p), ( $\beta^+$ p), ( $\beta^+$ 2p), ( $\beta^+$ 3p); measured Ep, Ip, delayed proton angular and energy correlations. JOUR APOBB 39 477

**A=44**

<sup>44</sup> Ar	2008BL01	NUCLEAR MOMENTS <sup>38,40,41,42,43,44</sup> Ar; measured isotope shifts, hfs; deduced charge radii, J, $\mu$ , quadrupole moment. Fast-beam collinear laser spectroscopy. JOUR NUPAB 799 30
<sup>44</sup> K	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=44 (continued)**

<sup>44</sup> Ca	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>44</sup> Sc	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008SA04		NUCLEAR REACTIONS <sup>24</sup> Mg( <sup>24</sup> Mg, <sup>24</sup> Mg'), <sup>24</sup> Mg( <sup>24</sup> Mg, X) <sup>45</sup> Ti / <sup>44</sup> Sc / <sup>42</sup> Ca / <sup>41</sup> Ca / <sup>41</sup> K / <sup>39</sup> K / <sup>38</sup> Ar / <sup>37</sup> Ar, E=91.72, 92.62 MeV; measured (fragment) $\gamma$ -, (charged particle) $\gamma$ - and $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of <sup>48</sup> Cr discussed. <sup>45</sup> Ti deduced levels, J, $\pi$ . JOUR NUPAB 801 1
<sup>44</sup> Cr	2008MI03	RADIOACTIVITY <sup>45</sup> Fe(2p), ( $\beta^+$ p), ( $\beta^+$ 2p), ( $\beta^+$ 3p); measured Ep, Ip, delayed proton angular and energy correlations. JOUR APOBB 39 477

**A=45**

<sup>45</sup> K	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>45</sup> Ca	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>45</sup> Sc	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

### **A=45 (continued)**

- |                  |          |   |
|------------------|----------|---|
| <sup>45</sup> Ti | 2007NA31 | NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609 |
|                  | 2008SA04 | NUCLEAR REACTIONS $^{24}\text{Mg}({}^{24}\text{Mg}, {}^{24}\text{Mg}')$ , $^{24}\text{Mg}({}^{24}\text{Mg}, \text{X})$ ${}^{45}\text{Ti}$ / ${}^{44}\text{Sc}$ / ${}^{42}\text{Ca}$ / ${}^{41}\text{Ca}$ / ${}^{41}\text{K}$ / ${}^{39}\text{K}$ / ${}^{38}\text{Ar}$ / ${}^{37}\text{Ar}$ , E=91.72, 92.62 MeV; measured (fragment) $\gamma_-$ , (charged particle) $\gamma_-$ and $\gamma\gamma$ -coin; deduced ON / OFF resonance yield ratios for the inelastic and fusion evaporation channels. ON resonance formation of ${}^{48}\text{Cr}$ discussed. ${}^{45}\text{Ti}$ deduced levels, J, $\pi$ . JOUR NUPAB 801 1   |
| <sup>45</sup> Fe | 2007MI40 | RADIOACTIVITY ${}^{45}\text{Fe}(2\text{p})$ [from $\text{Ni}({}^{58}\text{Ni}, \text{X})$ , E=161 MeV / nucleon]; measured proton energies, angular correlations, branching ratio, and half-life. JOUR PRLTA 99 192501  |
|                  | 2008MI03 | RADIOACTIVITY ${}^{45}\text{Fe}(2\text{p})$ , ( $\beta^+$ p), ( $\beta^+$ 2p), ( $\beta^+$ 3p); measured Ep, Ip, delayed proton angular and energy correlations. JOUR APOBB 39 477  |

A=46

- <sup>46</sup>Ca 2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=46 (continued)**

<sup>46</sup> Sc	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>46</sup> Ti	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>46</sup> V	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=47**

<sup>47</sup> Ca	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>47</sup> Sc	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>47</sup> Ti	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=47 (continued)**

<sup>47</sup> V	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008FA03	NUCLEAR REACTIONS <sup>46</sup> Ti, <sup>64</sup> Zn, <sup>114,116</sup> Sn(p, $\gamma$ ), E(cm)=13.7 MeV; measured E $\gamma$ , I $\gamma$ following residual decay, $\sigma$ ; deduced astrophysical S-factors, reaction rates. Activation technique. JOUR NUPAB 802 26

**A=48**

<sup>48</sup> Ca	2007GR22	NUCLEAR REACTIONS <sup>48</sup> Ca( <sup>3</sup> He, t), E=420 MeV; measured charged particles, angular distributions; calculated Gamow-Teller strengths. <sup>48</sup> Sc; deduced levels, J, $\pi$ . Compared with <sup>48</sup> Ca(p, n), E=134 MeV and <sup>48</sup> Ca(d, <sup>2</sup> He), E=183 MeV reactions. <sup>48</sup> Ca; implications for $2\beta$ decay. JOUR PRVCA 76 054307
<sup>48</sup> Sc	2007GR22	NUCLEAR REACTIONS <sup>48</sup> Ca( <sup>3</sup> He, t), E=420 MeV; measured charged particles, angular distributions; calculated Gamow-Teller strengths. <sup>48</sup> Sc; deduced levels, J, $\pi$ . Compared with <sup>48</sup> Ca(p, n), E=134 MeV and <sup>48</sup> Ca(d, <sup>2</sup> He), E=183 MeV reactions. <sup>48</sup> Ca; implications for $2\beta$ decay. JOUR PRVCA 76 054307
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=48 (*continued*)**

- <sup>48</sup>Ti      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>48</sup>V      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=49**

- <sup>49</sup>Cl      2008MA01      NUCLEAR REACTIONS <sup>9</sup>Be(<sup>76</sup>Ge, X)<sup>49</sup>Cl / <sup>50</sup>Ar / <sup>51</sup>Ar / <sup>52</sup>K / <sup>53</sup>K / <sup>54</sup>K / <sup>53</sup>Ca / <sup>54</sup>Ca / <sup>55</sup>Ca / <sup>56</sup>Ca / <sup>55</sup>Sc / <sup>56</sup>Sc / <sup>57</sup>Sc / <sup>57</sup>Ti / <sup>58</sup>Ti / <sup>59</sup>Ti / <sup>60</sup>V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313

**A=49 (*continued*)**

<sup>49</sup> Sc	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>49</sup> Ti	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>49</sup> V	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=49 (*continued*)**

<sup>49</sup>Cr      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=50**

<sup>50</sup>Ar      2008MA01      NUCLEAR REACTIONS <sup>9</sup>Be(<sup>76</sup>Ge, X)<sup>49</sup>Cl / <sup>50</sup>Ar / <sup>51</sup>Ar / <sup>52</sup>K / <sup>53</sup>K / <sup>54</sup>K / <sup>53</sup>Ca / <sup>54</sup>Ca / <sup>55</sup>Ca / <sup>56</sup>Ca / <sup>55</sup>Sc / <sup>56</sup>Sc / <sup>57</sup>Sc / <sup>57</sup>Ti / <sup>58</sup>Ti / <sup>59</sup>Ti / <sup>60</sup>V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313

<sup>50</sup>Sc      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=50 (*continued*)**

<sup>50</sup> Ti	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>50</sup> V	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>50</sup> Cr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=50 (*continued*)**

<sup>50</sup>Mn      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=51**

<sup>51</sup>Ar      2008MA01      NUCLEAR REACTIONS <sup>9</sup>Be(<sup>76</sup>Ge, X)<sup>49</sup>Cl / <sup>50</sup>Ar / <sup>51</sup>Ar / <sup>52</sup>K / <sup>53</sup>K / <sup>54</sup>K / <sup>53</sup>Ca / <sup>54</sup>Ca / <sup>55</sup>Ca / <sup>56</sup>Ca / <sup>55</sup>Sc / <sup>56</sup>Sc / <sup>57</sup>Sc / <sup>57</sup>Ti / <sup>58</sup>Ti / <sup>59</sup>Ti / <sup>60</sup>V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313

<sup>51</sup>Ca      2008F001      NUCLEAR REACTIONS <sup>238</sup>U(<sup>48</sup>Ca, X), E=330 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>51</sup>Ca, <sup>52</sup>Sc; deduced levels, J,  $\pi$ , configurations. Comparison with shell model calculations. JOUR PRVCA 77 014304

<sup>51</sup>Ti      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

<sup>51</sup>V      2007LI81      NUCLEAR REACTIONS <sup>27</sup>Al(<sup>6</sup>He, <sup>6</sup>He'), E=9.5-13.4 MeV; <sup>51</sup>V(<sup>7</sup>Be, <sup>7</sup>Be'), E=26 MeV; measured reaction cross sections and angular distributions. Compared results to model calculations. JOUR ZSTNE 150 27

**A=51 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{51}\text{Cr}$	2007NA31
$^{51}\text{Mn}$	2007NA31

**A=52**

- <sup>52</sup>K      2008MA01      NUCLEAR REACTIONS <sup>9</sup>Be(<sup>76</sup>Ge, X)<sup>49</sup>Cl / <sup>50</sup>Ar / <sup>51</sup>Ar / <sup>52</sup>K / <sup>53</sup>K / <sup>54</sup>K / <sup>53</sup>Ca / <sup>54</sup>Ca / <sup>55</sup>Ca / <sup>56</sup>Ca / <sup>55</sup>Sc / <sup>56</sup>Sc / <sup>57</sup>Sc / <sup>57</sup>Ti / <sup>58</sup>Ti / <sup>59</sup>Ti / <sup>60</sup>V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
- <sup>52</sup>Sc      2008F001      NUCLEAR REACTIONS <sup>238</sup>U(<sup>48</sup>Ca, X), E=330 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>51</sup>Ca, <sup>52</sup>Sc; deduced levels, J,  $\pi$ , configurations. Comparison with shell model calculations. JOUR PRVCA 77 014304
- <sup>52</sup>Ti      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>52</sup>V      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=52 (continued)**

- <sup>52</sup>Cr      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>52</sup>Mn      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=53**

- <sup>53</sup>K      2008MA01      NUCLEAR REACTIONS <sup>9</sup>Be(<sup>76</sup>Ge, X)<sup>49</sup>Cl / <sup>50</sup>Ar / <sup>51</sup>Ar / <sup>52</sup>K / <sup>53</sup>K / <sup>54</sup>K / <sup>53</sup>Ca / <sup>54</sup>Ca / <sup>55</sup>Ca / <sup>56</sup>Ca / <sup>55</sup>Sc / <sup>56</sup>Sc / <sup>57</sup>Sc / <sup>57</sup>Ti / <sup>58</sup>Ti / <sup>59</sup>Ti / <sup>60</sup>V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
- <sup>53</sup>Ca      2008MA01      RADIOACTIVITY <sup>53,54,55,56</sup>Ca( $\beta^-$ ) [from <sup>9</sup>Be(<sup>76</sup>Ge, X), E=140 MeV / nucleon; measured E $\gamma$ , I $\gamma$ ,  $\beta\gamma$ -coin, half-lives. <sup>54</sup>Ca; deduced I $\beta$ , logft. <sup>54</sup>Sc; levels, J,  $\pi$ , half-lives, B(M1), B(E2), comparison with calculations. JOUR PRVCA 77 014313]
- 2008MA01      NUCLEAR REACTIONS <sup>9</sup>Be(<sup>76</sup>Ge, X)<sup>49</sup>Cl / <sup>50</sup>Ar / <sup>51</sup>Ar / <sup>52</sup>K / <sup>53</sup>K / <sup>54</sup>K / <sup>53</sup>Ca / <sup>54</sup>Ca / <sup>55</sup>Ca / <sup>56</sup>Ca / <sup>55</sup>Sc / <sup>56</sup>Sc / <sup>57</sup>Sc / <sup>57</sup>Ti / <sup>58</sup>Ti / <sup>59</sup>Ti / <sup>60</sup>V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
- <sup>53</sup>Sc      2008MA01      RADIOACTIVITY <sup>53,54,55,56</sup>Ca( $\beta^-$ ) [from <sup>9</sup>Be(<sup>76</sup>Ge, X), E=140 MeV / nucleon; measured E $\gamma$ , I $\gamma$ ,  $\beta\gamma$ -coin, half-lives. <sup>54</sup>Ca; deduced I $\beta$ , logft. <sup>54</sup>Sc; levels, J,  $\pi$ , half-lives, B(M1), B(E2), comparison with calculations. JOUR PRVCA 77 014313]

**A=53 (continued)**

<sup>53</sup> V	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>53</sup> Cr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>53</sup> Mn	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>53</sup> Fe	2008KU01	NUCLEAR REACTIONS $^{46}\text{Ti}(^{12}\text{C}, \text{X})^{58}\text{Ni}$ , E=80 MeV; $^{27}\text{Al}(^{31}\text{P}, \text{X})^{58}\text{Ni}$ , E=131 MeV; measured inclusive and exclusive neutron evaporation spectra, $E\gamma$ , $I\gamma$ , $n\gamma$ -coin. $^{53,55}\text{Fe}$ , $^{56}\text{Co}$ deduced average excitation energy and angular momenta. Comparison with statistical model calculations. JOUR NUPAB 798 1

**A=54**

<sup>54</sup> K	2008MA01	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>76</sup> Ge, X) <sup>49</sup> Cl / <sup>50</sup> Ar / <sup>51</sup> Ar / <sup>52</sup> K / <sup>53</sup> K / <sup>54</sup> K / <sup>53</sup> Ca / <sup>54</sup> Ca / <sup>55</sup> Ca / <sup>56</sup> Ca / <sup>55</sup> Sc / <sup>56</sup> Sc / <sup>57</sup> Sc / <sup>57</sup> Ti / <sup>58</sup> Ti / <sup>59</sup> Ti / <sup>60</sup> V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
<sup>54</sup> Ca	2008MA01	RADIOACTIVITY <sup>53,54,55,56</sup> Ca( $\beta^-$ ) [from <sup>9</sup> Be( <sup>76</sup> Ge, X), E=140 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\beta\gamma$ -coin, half-lives. <sup>54</sup> Ca; deduced I $\beta$ , logft. <sup>54</sup> Sc; levels, J, $\pi$ , half-lives, B(M1), B(E2), comparison with calculations. JOUR PRVCA 77 014313
	2008MA01	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>76</sup> Ge, X) <sup>49</sup> Cl / <sup>50</sup> Ar / <sup>51</sup> Ar / <sup>52</sup> K / <sup>53</sup> K / <sup>54</sup> K / <sup>53</sup> Ca / <sup>54</sup> Ca / <sup>55</sup> Ca / <sup>56</sup> Ca / <sup>55</sup> Sc / <sup>56</sup> Sc / <sup>57</sup> Sc / <sup>57</sup> Ti / <sup>58</sup> Ti / <sup>59</sup> Ti / <sup>60</sup> V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
<sup>54</sup> Sc	2008MA01	RADIOACTIVITY <sup>53,54,55,56</sup> Ca( $\beta^-$ ) [from <sup>9</sup> Be( <sup>76</sup> Ge, X), E=140 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\beta\gamma$ -coin, half-lives. <sup>54</sup> Ca; deduced I $\beta$ , logft. <sup>54</sup> Sc; levels, J, $\pi$ , half-lives, B(M1), B(E2), comparison with calculations. JOUR PRVCA 77 014313
<sup>54</sup> V	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>54</sup> Cr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=54 (*continued*)**

<sup>54</sup> Mn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
------------------	----------	--

**A=55**

<sup>55</sup> Ca	2008MA01	RADIOACTIVITY <sup>53,54,55,56</sup> Ca( $\beta^-$ ) [from <sup>9</sup> Be( <sup>76</sup> Ge, X), E=140 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\beta\gamma$ -coin, half-lives. <sup>54</sup> Ca; deduced I $\beta$ , logft. <sup>54</sup> Sc; levels, J, $\pi$ , half-lives, B(M1), B(E2), comparison with calculations. JOUR PRVCA 77 014313]
	2008MA01	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>76</sup> Ge, X) <sup>49</sup> Cl / <sup>50</sup> Ar / <sup>51</sup> Ar / <sup>52</sup> K / <sup>53</sup> K / <sup>54</sup> K / <sup>53</sup> Ca / <sup>54</sup> Ca / <sup>55</sup> Ca / <sup>56</sup> Ca / <sup>55</sup> Sc / <sup>56</sup> Sc / <sup>57</sup> Sc / <sup>57</sup> Ti / <sup>58</sup> Ti / <sup>59</sup> Ti / <sup>60</sup> V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
<sup>55</sup> Sc	2008MA01	RADIOACTIVITY <sup>53,54,55,56</sup> Ca( $\beta^-$ ) [from <sup>9</sup> Be( <sup>76</sup> Ge, X), E=140 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\beta\gamma$ -coin, half-lives. <sup>54</sup> Ca; deduced I $\beta$ , logft. <sup>54</sup> Sc; levels, J, $\pi$ , half-lives, B(M1), B(E2), comparison with calculations. JOUR PRVCA 77 014313]
	2008MA01	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>76</sup> Ge, X) <sup>49</sup> Cl / <sup>50</sup> Ar / <sup>51</sup> Ar / <sup>52</sup> K / <sup>53</sup> K / <sup>54</sup> K / <sup>53</sup> Ca / <sup>54</sup> Ca / <sup>55</sup> Ca / <sup>56</sup> Ca / <sup>55</sup> Sc / <sup>56</sup> Sc / <sup>57</sup> Sc / <sup>57</sup> Ti / <sup>58</sup> Ti / <sup>59</sup> Ti / <sup>60</sup> V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
<sup>55</sup> V	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=55 (*continued*)**

<sup>55</sup> Cr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^6,^7,^8\text{Li}$ , $^9,^{10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>55</sup> Mn	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^6,^7,^8\text{Li}$ , $^9,^{10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>55</sup> Fe	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^6,^7,^8\text{Li}$ , $^9,^{10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008KU01	NUCLEAR REACTIONS $^{46}\text{Ti}(^{12}\text{C}, \text{X})^{58}\text{Ni}$ , E=80 MeV; $^{27}\text{Al}(^{31}\text{P}, \text{X})^{58}\text{Ni}$ , E=131 MeV; measured inclusive and exclusive neutron evaporation spectra, $E\gamma$ , $I\gamma$ , $n\gamma$ -coin. $^{53,55}\text{Fe}$ , $^{56}\text{Co}$ deduced average excitation energy and angular momenta. Comparison with statistical model calculations. JOUR NUPAB 798 1

**A=56**

<sup>56</sup> Ca	2008MA01	RADIOACTIVITY <sup>53,54,55,56</sup> Ca( $\beta^-$ ) [from <sup>9</sup> Be( <sup>76</sup> Ge, X), E=140 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\beta\gamma$ -coin, half-lives. <sup>54</sup> Ca; deduced I $\beta$ , logft. <sup>54</sup> Sc; levels, J, $\pi$ , half-lives, B(M1), B(E2), comparison with calculations. JOUR PRVCA 77 014313]
	2008MA01	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>76</sup> Ge, X) <sup>49</sup> Cl / <sup>50</sup> Ar / <sup>51</sup> Ar / <sup>52</sup> K / <sup>53</sup> K / <sup>54</sup> K / <sup>53</sup> Ca / <sup>54</sup> Ca / <sup>55</sup> Ca / <sup>56</sup> Ca / <sup>55</sup> Sc / <sup>56</sup> Sc / <sup>57</sup> Sc / <sup>57</sup> Ti / <sup>58</sup> Ti / <sup>59</sup> Ti / <sup>60</sup> V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
<sup>56</sup> Sc	2008MA01	RADIOACTIVITY <sup>53,54,55,56</sup> Ca( $\beta^-$ ) [from <sup>9</sup> Be( <sup>76</sup> Ge, X), E=140 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\beta\gamma$ -coin, half-lives. <sup>54</sup> Ca; deduced I $\beta$ , logft. <sup>54</sup> Sc; levels, J, $\pi$ , half-lives, B(M1), B(E2), comparison with calculations. JOUR PRVCA 77 014313]
	2008MA01	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>76</sup> Ge, X) <sup>49</sup> Cl / <sup>50</sup> Ar / <sup>51</sup> Ar / <sup>52</sup> K / <sup>53</sup> K / <sup>54</sup> K / <sup>53</sup> Ca / <sup>54</sup> Ca / <sup>55</sup> Ca / <sup>56</sup> Ca / <sup>55</sup> Sc / <sup>56</sup> Sc / <sup>57</sup> Sc / <sup>57</sup> Ti / <sup>58</sup> Ti / <sup>59</sup> Ti / <sup>60</sup> V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
<sup>56</sup> Cr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>56</sup> Mn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=56 (*continued*)**

<sup>56</sup> Fe	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Br}$ ; measured cross sections. JOUR PRVCA 76 064609
	20080H02	NUCLEAR REACTIONS $^{56}\text{Fe}$ , $^{89}\text{Y}$ , $^{208}\text{Pb}(\text{n}, \text{n})$ , E=96 MeV; measured $\sigma(\theta)$ ; $^{12}\text{C}$ , $^{16}\text{O}$ ; systematics, compared with Wick's limit. JOUR PRVCA 77 024605
<sup>56</sup> Co	2008KU01	NUCLEAR REACTIONS $^{46}\text{Ti}(\text{C}^{12}, \text{X})^{58}\text{Ni}$ , E=80 MeV; $^{27}\text{Al}(\text{C}^{31}, \text{X})^{58}\text{Ni}$ , E=131 MeV; measured inclusive and exclusive neutron evaporation spectra, E $\gamma$ , I $\gamma$ , n $\gamma$ -coin. $^{53,55}\text{Fe}$ , $^{56}\text{Co}$ deduced average excitation energy and angular momenta. Comparison with statistical model calculations. JOUR NUPAB 798 1
<sup>56</sup> Ni	2008M002	NUCLEAR REACTIONS $^2\text{H}(\text{Ni}^{56}, \text{Ni}^{56})$ , E=50 MeV / nucleon; measured deuteron recoil energies and yields. $^{56}\text{Ni}$ ; deduced isoscalar giant monopole and giant quadrupole resonance centroids and angular distributions. JOUR PRLTA 100 042501

**A=57**

<sup>57</sup> Sc	2008MA01	NUCLEAR REACTIONS $^9\text{Be}(\text{Ge}^{76}, \text{X})^{49}\text{Cl}$ / $^{50}\text{Ar}$ / $^{51}\text{Ar}$ / $^{52}\text{K}$ / $^{53}\text{K}$ / $^{54}\text{K}$ / $^{53}\text{Ca}$ / $^{54}\text{Ca}$ / $^{55}\text{Ca}$ / $^{56}\text{Ca}$ / $^{55}\text{Sc}$ / $^{56}\text{Sc}$ / $^{57}\text{Sc}$ / $^{57}\text{Ti}$ / $^{58}\text{Ti}$ / $^{59}\text{Ti}$ / $^{60}\text{V}$ , E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
<sup>57</sup> Ti	2008MA01	NUCLEAR REACTIONS $^9\text{Be}(\text{Ge}^{76}, \text{X})^{49}\text{Cl}$ / $^{50}\text{Ar}$ / $^{51}\text{Ar}$ / $^{52}\text{K}$ / $^{53}\text{K}$ / $^{54}\text{K}$ / $^{53}\text{Ca}$ / $^{54}\text{Ca}$ / $^{55}\text{Ca}$ / $^{56}\text{Ca}$ / $^{55}\text{Sc}$ / $^{56}\text{Sc}$ / $^{57}\text{Sc}$ / $^{57}\text{Ti}$ / $^{58}\text{Ti}$ / $^{59}\text{Ti}$ / $^{60}\text{V}$ , E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313

**A=57 (*continued*)**

<sup>57</sup> Cr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>57</sup> Mn	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>57</sup> Fe	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=57 (*continued*)**

<sup>57</sup> Co	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>57</sup> Ni	2007MI48	RADIOACTIVITY <sup>57</sup> Cu( $\beta^+$ ); measured ground state magnetic moment using the $\beta$ -NMR technique. Deduced spin expectation value. JOUR ZSTNE 150 145
<sup>57</sup> Cu	2007MI48	RADIOACTIVITY <sup>57</sup> Cu( $\beta^+$ ); measured ground state magnetic moment using the $\beta$ -NMR technique. Deduced spin expectation value. JOUR ZSTNE 150 145

**A=58**

<sup>58</sup> Ti	2008MA01	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>76</sup> Ge, X) <sup>49</sup> Cl / <sup>50</sup> Ar / <sup>51</sup> Ar / <sup>52</sup> K / <sup>53</sup> K / <sup>54</sup> K / <sup>53</sup> Ca / <sup>54</sup> Ca / <sup>55</sup> Ca / <sup>56</sup> Ca / <sup>55</sup> Sc / <sup>56</sup> Sc / <sup>57</sup> Sc / <sup>57</sup> Ti / <sup>58</sup> Ti / <sup>59</sup> Ti / <sup>60</sup> V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
<sup>58</sup> Mn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=58 (*continued*)**

<sup>58</sup> Fe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>58</sup> Co	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>58</sup> Ni	2008BI04	NUCLEAR REACTIONS <sup>64</sup> Ni( <sup>6</sup> Li, <sup>6</sup> Li), E=1326 MeV; measured $\sigma(\theta)$ ; <sup>58</sup> Ni( <sup>6</sup> Li, <sup>6</sup> Li), E=1220 MeV; analyzed $\sigma(\theta)$ . Double folding optical model, threshold behaviour. JOUR NUPAB 802 67
	2008KU01	NUCLEAR REACTIONS <sup>46</sup> Ti( <sup>12</sup> C, X) <sup>58</sup> Ni, E=80 MeV; <sup>27</sup> Al( <sup>31</sup> P, X) <sup>58</sup> Ni, E=131 MeV; measured inclusive and exclusive neutron evaporation spectra, E $\gamma$ , I $\gamma$ , n $\gamma$ -coin. <sup>53,55</sup> Fe, <sup>56</sup> Co deduced average excitation energy and angular momenta. Comparison with statistical model calculations. JOUR NUPAB 798 1
	2008TE03	NUCLEAR REACTIONS <sup>116,118,120,122,124</sup> Sn(p, p), E=295 MeV; measured $\sigma(\theta)$ , analyzing powers, nucleon density distributions, rms radii. <sup>58</sup> Ni; calculated proton, neutron density distributions. JOUR PRVCA 77 024317

**A=59**

<sup>59</sup> Ti	2008MA01	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>76</sup> Ge, X) <sup>49</sup> Cl / <sup>50</sup> Ar / <sup>51</sup> Ar / <sup>52</sup> K / <sup>53</sup> K / <sup>54</sup> K / <sup>53</sup> Ca / <sup>54</sup> Ca / <sup>55</sup> Ca / <sup>56</sup> Ca / <sup>55</sup> Sc / <sup>56</sup> Sc / <sup>57</sup> Sc / <sup>57</sup> Ti / <sup>58</sup> Ti / <sup>59</sup> Ti / <sup>60</sup> V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313
------------------	----------	---

**A=59 (continued)**

<sup>59</sup> Mn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>59</sup> Fe	2007DE56	NUCLEAR REACTIONS <sup>13,14</sup> C( <sup>48</sup> Ca, 2n), E=2.75 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma(\theta)$ , symmetry parameters. <sup>59,60</sup> Fe; deduced angular momenta, levels, J, $\pi$ ; calculated potential energy surfaces. Shell model calculations. JOUR PRVCA 76 054303
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008HE01	NUCLEAR REACTIONS <sup>58</sup> Fe, <sup>59</sup> Co, <sup>64</sup> Ni, <sup>63,65</sup> Cu(n, $\gamma$ ), E=25 keV; measured neutron capture cross sections, E $\gamma$ ; <sup>59</sup> Fe, <sup>60</sup> Co, <sup>65</sup> Ni, <sup>64,66</sup> Cu, <sup>198</sup> Au; deduced nucleosynthesis yields in stars. JOUR PRVCA 77 015808

**A=59 (*continued*)**

- <sup>59</sup>Co      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>59</sup>Ni      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=60**

- <sup>60</sup>V      2008MA01      NUCLEAR REACTIONS <sup>9</sup>Be(<sup>76</sup>Ge, X)<sup>49</sup>Cl / <sup>50</sup>Ar / <sup>51</sup>Ar / <sup>52</sup>K / <sup>53</sup>K / <sup>54</sup>K / <sup>53</sup>Ca / <sup>54</sup>Ca / <sup>55</sup>Ca / <sup>56</sup>Ca / <sup>55</sup>Sc / <sup>56</sup>Sc / <sup>57</sup>Sc / <sup>57</sup>Ti / <sup>58</sup>Ti / <sup>59</sup>Ti / <sup>60</sup>V, E=140 MeV / nucleon; measured reaction yields. JOUR PRVCA 77 014313

**A=60 (continued)**

<sup>60</sup> Mn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>60</sup> Fe	2007DE56	NUCLEAR REACTIONS <sup>13,14</sup> C( <sup>48</sup> Ca, 2n), E=2.75 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma(\theta)$ , symmetry parameters. <sup>59,60</sup> Fe; deduced angular momenta, levels, J, $\pi$ ; calculated potential energy surfaces. Shell model calculations. JOUR PRVCA 76 054303
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>60</sup> Co	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=60 (*continued*)**

- 2008HE01 NUCLEAR REACTIONS  $^{58}\text{Fe}$ ,  $^{59}\text{Co}$ ,  $^{64}\text{Ni}$ ,  $^{63,65}\text{Cu}(\text{n}, \gamma)$ , E=25 keV; measured neutron capture cross sections, E $\gamma$ ;  $^{59}\text{Fe}$ ,  $^{60}\text{Co}$ ,  $^{65}\text{Ni}$ ,  $^{64,66}\text{Cu}$ ,  $^{198}\text{Au}$ ; deduced nucleosynthesis yields in stars. JOUR PRVCA 77 015808
- $^{60}\text{Ni}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- $^{60}\text{Cu}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=61**

<sup>61</sup> Fe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>61</sup> Co	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>61</sup> Ni	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=61 (continued)**

<sup>61</sup> Cu	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008DA01	NUCLEAR REACTIONS <sup>64</sup> Zn(d, 2p) <sup>64</sup> Cu, E=11.9-18.2 MeV; <sup>64</sup> Zn(d, n $\alpha$ ) <sup>61</sup> Cu, E=12.9-18.4 MeV; measured E $\gamma$ , I $\gamma$ from residual nuclei; deduced excitation functions, cross sections. Compared results to of theoretical cross sections. JOUR ARISE 66 261

**A=62**

<sup>62</sup> Fe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
------------------	----------	--

**A=62 (continued)**

- <sup>62</sup>Co      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>62</sup>Ni      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>62</sup>Cu      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=62 (continued)**

<sup>62</sup> Zn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008GR03	RADIOACTIVITY <sup>62</sup> Ga( $\beta^+$ ) [from Zr(p, $\gamma$ ), E=500 MeV]; measured $E\gamma$ , $\beta^+$ particles; deduced half-life. JOUR PRVCA 77 015501
<sup>62</sup> Ga	2008GR03	RADIOACTIVITY <sup>62</sup> Ga( $\beta^+$ ) [from Zr(p, $\gamma$ ), E=500 MeV]; measured $E\gamma$ , $\beta^+$ particles; deduced half-life. JOUR PRVCA 77 015501

**A=63**

<sup>63</sup> Co	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>63</sup> Ni	2007CL04	NUCLEAR REACTIONS <sup>2</sup> H, <sup>12</sup> C, <sup>27</sup> Al, <sup>63</sup> Cu, <sup>197</sup> Au(e, e'p $^+$ ), E=4.021-5.767 GeV; measured electron and pion energies. Deduced nuclear transparency. JOUR PRLTA 99 242502

**A=63 (continued)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
2008AL03	NUCLEAR REACTIONS $^{62}\text{Ni}(\text{n}, \gamma)$ , E=35 eV-500 keV; measured neutron capture cross sections, E $\gamma$ . JOUR PRVCA 77 015806
$^{63}\text{Cu}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{63}\text{Zn}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=64**

- <sup>64</sup>Co      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>64</sup>Ni      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- 2008BE02      RADIOACTIVITY <sup>64</sup>Zn(2EC), ( $\beta^+$ EC); measured  $T_{1/2}$  lower limits for various  $2\beta$ -decay modes. JOUR PYLBB 658 193
- 2008BI04      NUCLEAR REACTIONS <sup>64</sup>Ni(<sup>6</sup>Li, <sup>6</sup>Li), E=1326 MeV; measured  $\sigma(\theta)$ ; <sup>58</sup>Ni(<sup>6</sup>Li, <sup>6</sup>Li), E=1220 MeV; analyzed  $\sigma(\theta)$ . Double folding optical model, threshold behaviour. JOUR NUPAB 802 67
- <sup>64</sup>Cu      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=64 (*continued*)**

2008DA01	NUCLEAR REACTIONS $^{64}\text{Zn}(\text{d}, 2\text{p})^{64}\text{Cu}$ , E=11.9-18.2 MeV; $^{64}\text{Zn}(\text{d}, n\alpha)^{61}\text{Cu}$ , E=12.9-18.4 MeV; measured $E\gamma$ , $I\gamma$ from residual nuclei; deduced excitation functions, cross sections. Compared results to of theoretical cross sections. JOUR ARISE 66 261
2008HE01	NUCLEAR REACTIONS $^{58}\text{Fe}$ , $^{59}\text{Co}$ , $^{64}\text{Ni}$ , $^{63,65}\text{Cu}(n, \gamma)$ , E=25 keV; measured neutron capture cross sections, $E\gamma$ ; $^{59}\text{Fe}$ , $^{60}\text{Co}$ , $^{65}\text{Ni}$ , $^{64,66}\text{Cu}$ , $^{198}\text{Au}$ ; deduced nucleosynthesis yields in stars. JOUR PRVCA 77 015808
$^{64}\text{Zn}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
2008BE02	RADIOACTIVITY $^{64}\text{Zn}(2\text{EC})$ , ( $\beta^+\text{EC}$ ); measured $T_{1/2}$ lower limits for various $2\beta$ -decay modes. JOUR PYLBB 658 193

**A=65**

$^{65}\text{Co}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
------------------	--

**A=65 (continued)**

- <sup>65</sup>Ni      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- 2008HE01      NUCLEAR REACTIONS <sup>58</sup>Fe, <sup>59</sup>Co, <sup>64</sup>Ni, <sup>63,65</sup>Cu(n,  $\gamma$ ), E=25 keV; measured neutron capture cross sections, E $\gamma$ ; <sup>59</sup>Fe, <sup>60</sup>Co, <sup>65</sup>Ni, <sup>64,66</sup>Cu, <sup>198</sup>Au; deduced nucleosynthesis yields in stars. JOUR PRVCA 77 015808
- <sup>65</sup>Cu      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>65</sup>Zn      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=65 (continued)**

<sup>65</sup>Ga      2008FA03      NUCLEAR REACTIONS <sup>46</sup>Ti, <sup>64</sup>Zn, <sup>114,116</sup>Sn(p,  $\gamma$ ), E(cm)=13.7 MeV; measured E $\gamma$ , I $\gamma$  following residual decay,  $\sigma$ ; deduced astrophysical S-factors, reaction rates. Activation technique. JOUR NUPAB 802 26

**A=66**

<sup>66</sup>Ni      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

<sup>66</sup>Cu      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

2008HE01      NUCLEAR REACTIONS <sup>58</sup>Fe, <sup>59</sup>Co, <sup>64</sup>Ni, <sup>63,65</sup>Cu(n,  $\gamma$ ), E=25 keV; measured neutron capture cross sections, E $\gamma$ ; <sup>59</sup>Fe, <sup>60</sup>Co, <sup>65</sup>Ni, <sup>64,66</sup>Cu, <sup>198</sup>Au; deduced nucleosynthesis yields in stars. JOUR PRVCA 77 015808

**A=66 (continued)**

<sup>66</sup> Zn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>66</sup> Ga	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=67**

<sup>67</sup> Ni	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
------------------	----------	--

**A=67 (continued)**

<sup>67</sup> Cu	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008ST04		NUCLEAR REACTIONS <sup>104</sup> Pd( <sup>67</sup> Cu, <sup>67</sup> Cu'), ( <sup>69</sup> Cu, <sup>69</sup> Cu'), ( <sup>71</sup> Cu, <sup>71</sup> Cu'), E=2.99 MeV / nucleon; <sup>120</sup> Sn( <sup>71</sup> Cu, <sup>71</sup> Cu'), ( <sup>73</sup> Cu, <sup>73</sup> Cu'), E=2.99 MeV / nucleon; measured E $\gamma$ , I $\gamma$ following coulomb excitation. <sup>67,69,71,73</sup> Cu; deduced level energies, B(E2). JOUR PRLTA 100 112502
<sup>67</sup> Zn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>67</sup> Ga	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=68**

<sup>68</sup> Cu	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>68</sup> Zn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>68</sup> Ga	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=68 (*continued*)**

<sup>68</sup>Ge      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=69**

<sup>69</sup>Cu      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

2008ST04      NUCLEAR REACTIONS <sup>104</sup>Pd(<sup>67</sup>Cu, <sup>67</sup>Cu'), (<sup>69</sup>Cu, <sup>69</sup>Cu'), (<sup>71</sup>Cu, <sup>71</sup>Cu'), E=2.99 MeV / nucleon; <sup>120</sup>Sn(<sup>71</sup>Cu, <sup>71</sup>Cu'), (<sup>73</sup>Cu, <sup>73</sup>Cu'), E=2.99 MeV / nucleon; measured E $\gamma$ , I $\gamma$  following coulomb excitation. <sup>67,69,71,73</sup>Cu; deduced level energies, B(E2). JOUR PRLTA 100 112502

**A=69 (*continued*)**

<sup>69</sup> Zn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>69</sup> Ga	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>69</sup> Ge	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=70**

<sup>70</sup> Cu	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>70</sup> Zn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>70</sup> Ga	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>70</sup> Ge	2007B041	NUCLEAR REACTIONS C( <sup>70</sup> Ge, X) <sup>70</sup> Ge, E=190, 225 MeV; measured E $\gamma$ , I $\gamma$ ; deduced levels, J, $\pi$ , g-factors for 2 $^+$ , 3 $^+$ and 4 $^+$ states, B(E2), half-lives. Comparison with calculated and measured g-factors of <sup>64,66,68</sup> Zn, <sup>74,76,78,80,82</sup> Se. JOUR PRVCA 76 054311

**A=70 (continued)**

<sup>70</sup> As	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>70</sup> Se	2008LJ01	NUCLEAR REACTIONS $^{40}\text{Ca}(^{36}\text{Ar}, 2\text{p}\alpha)$ , $(^{36}\text{Ar}, 4\text{p})$ , E=136 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, lifetimes using recoil distance doppler shift method. $^{70,72}\text{Se}$ ; deduced level energies and B(E2). JOUR PRLTA 100 102502

**A=71**

<sup>71</sup> Cu	2008ST01	RADIOACTIVITY $^{71}\text{Cu}(\beta^-)$ ; measured magnetic moment of ground state. Compared with magnetic dipole moments of $^{57,59,61,63,65,67,69}\text{Cu}$ . JOUR PRVCA 77 014315
	2008ST04	NUCLEAR REACTIONS $^{104}\text{Pd}(^{67}\text{Cu}, ^{67}\text{Cu}')$ , $(^{69}\text{Cu}, ^{69}\text{Cu}')$ , $(^{71}\text{Cu}, ^{71}\text{Cu}')$ , E=2.99 MeV / nucleon; $^{120}\text{Sn}(^{71}\text{Cu}, ^{71}\text{Cu}')$ , $(^{73}\text{Cu}, ^{73}\text{Cu}')$ , E=2.99 MeV / nucleon; measured $E\gamma$ , $I\gamma$ following coulomb excitation. $^{67,69,71,73}\text{Cu}$ ; deduced level energies, B(E2). JOUR PRLTA 100 112502

**A=71 (continued)**

<sup>71</sup> Zn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008ST01		RADIOACTIVITY <sup>71</sup> Cu( $\beta^-$ ); measured magnetic moment of ground state. Compared with magnetic dipole moments of <sup>57,59,61,63,65,67,69</sup> Cu. JOUR PRVCA 77 014315
<sup>71</sup> Ga	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>71</sup> Ge	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>71</sup> As	2007KI17	NUCLEAR REACTIONS <sup>70</sup> Ge(p, $\gamma$ ), E=1.5-4.5 MeV; <sup>76</sup> Ge(p, n), E=1.5-4.5 MeV; measured E $\gamma$ , I $\gamma$ , cross sections; deduced astrophysical S-factors, reaction rates. JOUR PRVCA 76 055807

**A=71 (continued)**

2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,^7,^8\text{Li}$ ,  $^9,^{10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=72**

$^{72}\text{Zn}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,^7,^8\text{Li}$ ,  $^9,^{10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

$^{72}\text{Ga}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^6,^7,^8\text{Li}$ ,  $^9,^{10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ ,  $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=72 (continued)**

<sup>72</sup> Ge	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>72</sup> As	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>72</sup> Se	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008LJ01	NUCLEAR REACTIONS <sup>40</sup> Ca( <sup>36</sup> Ar, 2p $\alpha$ ), ( <sup>36</sup> Ar, 4p), E=136 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, lifetimes using recoil distance doppler shift method. <sup>70,72</sup> Se; deduced level energies and B(E2). JOUR PRLTA 100 102502

**A=72 (continued)**

<sup>72</sup>Kr      2007YA20      NUCLEAR REACTIONS C(<sup>72</sup>Kr, X), (<sup>76</sup>Kr, X), (<sup>80</sup>Kr, X), E < 1 GeV / nucleon; measured particle energies, yields, and interaction cross sections. <sup>72,76,80</sup>Kr; deduced effective rms matter radii. JOUR ZSTNE 150 197

**A=73**

<sup>73</sup>Cu      2008ST04      NUCLEAR REACTIONS <sup>104</sup>Pd(<sup>67</sup>Cu, <sup>67</sup>Cu'), (<sup>69</sup>Cu, <sup>69</sup>Cu'), (<sup>71</sup>Cu, <sup>71</sup>Cu'), E=2.99 MeV / nucleon; <sup>120</sup>Sn(<sup>71</sup>Cu, <sup>71</sup>Cu'), (<sup>73</sup>Cu, <sup>73</sup>Cu'), E=2.99 MeV / nucleon; measured E $\gamma$ , I $\gamma$  following coulomb excitation. <sup>67,69,71,73</sup>Cu; deduced level energies, B(E2). JOUR PRLTA 100 112502

<sup>73</sup>Ga      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

<sup>73</sup>Ge      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

2008SC03      NUCLEAR REACTIONS <sup>74,76</sup>Ge, <sup>76,78</sup>Se(d, p), E=15 MeV; <sup>76</sup>Ge, <sup>76</sup>Se(p, d), E=23 MeV; <sup>74,76</sup>Ge, <sup>76,78</sup>Se(<sup>3</sup>He,  $\alpha$ ), E=26 MeV; <sup>74,76</sup>Ge, <sup>76,78</sup>Se( $\alpha$ , <sup>3</sup>He), E=40 MeV; measured reaction products energy spectra, cross sections. Deduced summed spectroscopic strengths, neutron vacancies. JOUR PRLTA 100 112501

**A=73 (continued)**

<sup>73</sup> As	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>73</sup> Se	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=74**

<sup>74</sup> Ga	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
------------------	----------	---

**A=74 (continued)**

<sup>74</sup> Ge	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>74</sup> As	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>74</sup> Se	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=74 (continued)**

<sup>74</sup> Br	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>74</sup> Kr	2007G042	NUCLEAR REACTIONS <sup>209</sup> Pb( <sup>74</sup> Kr, <sup>74</sup> Kr'), ( <sup>76</sup> Kr, <sup>76</sup> Kr'), E=4.7 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , (particle) $\gamma$ -coin, angular distributions. <sup>74,76</sup> Kr; deduced B(E2), static quadrupole moments, shape coexistence. JOUR ZSTNE 150 117
	2008VA03	NUCLEAR REACTIONS <sup>40</sup> Ca( <sup>40</sup> Ca, 2p $\alpha$ ), E=165 MeV; measured E $\gamma$ , I $\gamma$ , half-lives, transition quadrupole moments. <sup>74</sup> Kr; deduced excitation energies, rotational bands. JOUR PRVCA 77 024312

**A=75**

<sup>75</sup> Zn	2008WI01	RADIOACTIVITY <sup>76</sup> Cu( $\beta^-$ n); <sup>78</sup> Cu( $\beta^-$ ); <sup>79</sup> Cu( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\beta\gamma$ -coin. <sup>75,78</sup> Zn; deduced levels. JOUR APOBB 39 525
<sup>75</sup> Ga	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=75 (continued)**

<sup>75</sup> Ge	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008SC03		NUCLEAR REACTIONS <sup>74,76</sup> Ge, <sup>76,78</sup> Se(d, p), E=15 MeV; <sup>76</sup> Ge, <sup>76</sup> Se(p, d), E=23 MeV; <sup>74,76</sup> Ge, <sup>76,78</sup> Se( <sup>3</sup> He, $\alpha$ ), E=26 MeV; <sup>74,76</sup> Ge, <sup>76,78</sup> Se( $\alpha$ , <sup>3</sup> He), E=40 MeV; measured reaction products energy spectra, cross sections. Deduced summed spectroscopic strengths, neutron vacancies. JOUR PRLTA 100 112501
<sup>75</sup> As	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>75</sup> Se	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=75 (*continued*)**

2008SC03	NUCLEAR REACTIONS $^{74,76}\text{Ge}$ , $^{76,78}\text{Se}(\text{d}, \text{p})$ , E=15 MeV; $^{76}\text{Ge}$ , $^{76}\text{Se}(\text{p}, \text{d})$ , E=23 MeV; $^{74,76}\text{Ge}$ , $^{76,78}\text{Se}({}^3\text{He}, \alpha)$ , E=26 MeV; $^{74,76}\text{Ge}$ , $^{76,78}\text{Se}(\alpha, {}^3\text{He})$ , E=40 MeV; measured reaction products energy spectra, cross sections. Deduced summed spectroscopic strengths, neutron vacancies. JOUR PRLTA 100 112501
$^{75}\text{Br}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=76**

$^{76}\text{Cu}$	RADIOACTIVITY $^{76}\text{Cu}(\beta^- \text{n})$ ; $^{78}\text{Cu}(\beta^-)$ ; $^{79}\text{Cu}(\beta^- \text{n})$ ; measured $E\gamma$ , $I\gamma$ , $\beta\gamma$ -coin. $^{75,78}\text{Zn}$ ; deduced levels. JOUR APOBB 39 525
$^{76}\text{Ge}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43,44,45}\text{Ar}$ , $^{39,40,41,42,43,44,45,46,47}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{76}\text{As}$	2007KI17 NUCLEAR REACTIONS $^{70}\text{Ge}(\text{p}, \gamma)$ , E=1.5-4.5 MeV; $^{76}\text{Ge}(\text{p}, \text{n})$ , E=1.5-4.5 MeV; measured $E\gamma$ , $I\gamma$ , cross sections; deduced astrophysical S-factors, reaction rates. JOUR PRVCA 76 055807

**A=76 (continued)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{76}\text{Se}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{76}\text{Br}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{76}\text{Kr}$	2007G042	NUCLEAR REACTIONS $^{209}\text{Pb}(^{74}\text{Kr}, ^{74}\text{Kr}')$ , ( $^{76}\text{Kr}$ , $^{76}\text{Kr}'$ ), E=4.7 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin, angular distributions. $^{74,76}\text{Kr}$ ; deduced $B(E2)$ , static quadrupole moments, shape coexistence. JOUR ZSTNE 150 117

**A=76 (continued)**

- 2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- 2007YA20 NUCLEAR REACTIONS  $\text{C}(^{72}\text{Kr}, \text{X})$ ,  $(^{76}\text{Kr}, \text{X})$ ,  $(^{80}\text{Kr}, \text{X})$ , E < 1 GeV / nucleon; measured particle energies, yields, and interaction cross sections.  $^{72,76,80}\text{Kr}$ ; deduced effective rms matter radii. JOUR ZSTNE 150 197

**A=77**

- $^{77}\text{Ge}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- 2008SC03 NUCLEAR REACTIONS  $^{74,76}\text{Ge}$ ,  $^{76,78}\text{Se}(\text{d}, \text{p})$ , E=15 MeV;  $^{76}\text{Ge}$ ,  $^{76}\text{Se}(\text{p}, \text{d})$ , E=23 MeV;  $^{74,76}\text{Ge}$ ,  $^{76,78}\text{Se}({}^3\text{He}, \alpha)$ , E=26 MeV;  $^{74,76}\text{Ge}$ ,  $^{76,78}\text{Se}(\alpha, {}^3\text{He})$ , E=40 MeV; measured reaction products energy spectra, cross sections. Deduced summed spectroscopic strengths, neutron vacancies. JOUR PRLTA 100 112501

**A=77 (continued)**

<sup>77</sup> As	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>77</sup> Se	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
2008SC03		NUCLEAR REACTIONS <sup>74,76</sup> Ge, <sup>76,78</sup> Se(d, p), E=15 MeV; <sup>76</sup> Ge, <sup>76</sup> Se(p, d), E=23 MeV; <sup>74,76</sup> Ge, <sup>76,78</sup> Se( <sup>3</sup> He, $\alpha$ ), E=26 MeV; <sup>74,76</sup> Ge, <sup>76,78</sup> Se( $\alpha$ , <sup>3</sup> He), E=40 MeV; measured reaction products energy spectra, cross sections. Deduced summed spectroscopic strengths, neutron vacancies. JOUR PRLTA 100 112501
<sup>77</sup> Br	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=77 (*continued*)**

<sup>77</sup>Kr      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=78**

<sup>78</sup>Cu      2008WI01      RADIOACTIVITY <sup>76</sup>Cu( $\beta^-$ n); <sup>78</sup>Cu( $\beta^-$ ); <sup>79</sup>Cu( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ ,  $\beta\gamma$ -coin. <sup>75,78</sup>Zn; deduced levels. JOUR APOBB 39 525

<sup>78</sup>Zn      2008WI01      RADIOACTIVITY <sup>76</sup>Cu( $\beta^-$ n); <sup>78</sup>Cu( $\beta^-$ ); <sup>79</sup>Cu( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ ,  $\beta\gamma$ -coin. <sup>75,78</sup>Zn; deduced levels. JOUR APOBB 39 525

<sup>78</sup>As      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609

**A=78 (continued)**

<sup>78</sup> Se	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>78</sup> Br	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>78</sup> Kr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>78</sup> Sr	2007NA37	RADIOACTIVITY <sup>78</sup> Y( $\beta^+$ ) [from <sup>40</sup> Ca( <sup>40</sup> Ca, np), E=118, 121 MeV]; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ , $\beta\gamma$ -coin. <sup>78</sup> Y deduced levels. JOUR ZSTNE 150 147
<sup>78</sup> Y	2007NA37	RADIOACTIVITY <sup>78</sup> Y( $\beta^+$ ) [from <sup>40</sup> Ca( <sup>40</sup> Ca, np), E=118, 121 MeV]; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ , $\beta\gamma$ -coin. <sup>78</sup> Y deduced levels. JOUR ZSTNE 150 147

**A=79**

<sup>79</sup> Cu	2008WI01	RADIOACTIVITY <sup>76</sup> Cu( $\beta^-$ n); <sup>78</sup> Cu( $\beta^-$ ); <sup>79</sup> Cu( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\beta\gamma$ -coin. <sup>75,78</sup> Zn; deduced levels. JOUR APOBB 39 525
<sup>79</sup> As	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55,56,57</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>79</sup> Se	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45,46,47</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55,56,57</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008SC03	NUCLEAR REACTIONS <sup>74,76</sup> Ge, <sup>76,78</sup> Se(d, p), E=15 MeV; <sup>76</sup> Ge, <sup>76</sup> Se(p, d), E=23 MeV; <sup>74,76</sup> Ge, <sup>76,78</sup> Se( <sup>3</sup> He, $\alpha$ ), E=26 MeV; <sup>74,76</sup> Ge, <sup>76,78</sup> Se( $\alpha$ , <sup>3</sup> He), E=40 MeV; measured reaction products energy spectra, cross sections. Deduced summed spectroscopic strengths, neutron vacancies. JOUR PRLTA 100 112501

**A=79 (*continued*)**

<sup>79</sup> Br	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>79</sup> Kr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2008SI05	NUCLEAR REACTIONS <sup>74</sup> Ge( <sup>16</sup> O, 4n), ( <sup>16</sup> O, 2np), ( <sup>16</sup> O, 3np), ( <sup>16</sup> O, 4np), ( <sup>16</sup> O, na), ( <sup>16</sup> O, 3na), ( <sup>16</sup> O, 2np $\alpha$ ), ( <sup>16</sup> O, 3np $\alpha$ ), ( <sup>16</sup> O, 3n2 $\alpha$ ), E=60.2-111.6 MeV; measured E $\gamma$ , I $\gamma$ , cross sections using stacked foil activation. JOUR CJOPA 46 27

**A=79 (continued)**

<sup>79</sup> Rb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>79,80,81,82,83,84,85,86,87,88,89,90</sup> Rb, <sup>81,82,83,84,85,86,87,88,89,90,91,92,93</sup> Sr, <sup>84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100</sup> Nb, <sup>90,91,92,93,94,95,96,97,98,99,100,101,102,103,104</sup> Mo, <sup>92,93,94,95,96,97,98,99,100,101,102,103,104,105,106</sup> Tc, <sup>95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup> Ru, <sup>97,98,99,100,101,102,103,104,105,106,107,108,109,110,111</sup> Rh, <sup>99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115</sup> Pd, <sup>101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125</sup> Ag, <sup>104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125</sup> Cd, <sup>105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127</sup> In, <sup>108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130</sup> Sn, <sup>110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132</sup> Sb, <sup>111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134</sup> Te, <sup>113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> I, <sup>116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Xe, <sup>122,123,124,125,126,127,128,129,130,131,132,133,134,135,136</sup> Cs, <sup>127,128,129,130,131,132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
------------------	----------	--

**A=80**

<sup>80</sup> Zn	2007VE08	RADIOACTIVITY <sup>81</sup> Zn, <sup>81</sup> Ga, <sup>81</sup> Ge, <sup>81</sup> As ( $\beta^-$ ) [from U(d, F), E=26 MeV]; <sup>81</sup> Zn, <sup>81</sup> Ga ( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. <sup>81</sup> Ga; deduced levels, J, $\pi$ , configurations. <sup>81</sup> Ga, <sup>83</sup> As; calculated levels, J, $\pi$ , configurations. <sup>80</sup> Zn, <sup>81</sup> Ga, <sup>82</sup> Ge, <sup>83</sup> As, <sup>84</sup> Se, <sup>85</sup> Br, <sup>86</sup> Kr, <sup>87</sup> Rb; systematics. JOUR PRVCA 76 054312
<sup>80</sup> As	2007B050	ATOMIC MASSES <sup>80</sup> As, <sup>81</sup> Se; measured masses a penning trap mass spectrometer. JOUR ZSTNE 150 337
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>80</sup> Se	2007J014	NUCLEAR REACTIONS <sup>192</sup> Os( <sup>82</sup> Se, X), E=460 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>80,82</sup> Se; deduced levels, J, $\pi$ , configurations. JOUR PRVCA 76 054317

**A=80 (continued)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{80}\text{Br}$	2007NA31
$^{80}\text{Kr}$	2007NA31
2007YA20	NUCLEAR REACTIONS C( $^{72}\text{Kr}$ , X), ( $^{76}\text{Kr}$ , X), ( $^{80}\text{Kr}$ , X), E < 1 GeV / nucleon; measured particle energies, yields, and interaction cross sections. $^{72,76,80}\text{Kr}$ ; deduced effective rms matter radii. JOUR ZSTNE 150 197

**A=80 (*continued*)**

<sup>80</sup> Rb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> 101,102,103,104Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107,108,109Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
------------------	----------	---

**A=81**

<sup>81</sup> Zn	2007VE08	RADIOACTIVITY <sup>81</sup> Zn, <sup>81</sup> Ga, <sup>81</sup> Ge, <sup>81</sup> As ( $\beta^-$ ) [from U(d, F), E=26 MeV]; <sup>81</sup> Zn, <sup>81</sup> Ga ( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. <sup>81</sup> Ga; deduced levels, J, $\pi$ , configurations. <sup>81</sup> Ga, <sup>83</sup> As; calculated levels, J, $\pi$ , configurations. <sup>80</sup> Zn, <sup>81</sup> Ga, <sup>82</sup> Ge, <sup>83</sup> As, <sup>84</sup> Se, <sup>85</sup> Br, <sup>86</sup> Kr, <sup>87</sup> Rb; systematics. JOUR PRVCA 76 054312
<sup>81</sup> Ga	2007VE08	RADIOACTIVITY <sup>81</sup> Zn, <sup>81</sup> Ga, <sup>81</sup> Ge, <sup>81</sup> As ( $\beta^-$ ) [from U(d, F), E=26 MeV]; <sup>81</sup> Zn, <sup>81</sup> Ga ( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. <sup>81</sup> Ga; deduced levels, J, $\pi$ , configurations. <sup>81</sup> Ga, <sup>83</sup> As; calculated levels, J, $\pi$ , configurations. <sup>80</sup> Zn, <sup>81</sup> Ga, <sup>82</sup> Ge, <sup>83</sup> As, <sup>84</sup> Se, <sup>85</sup> Br, <sup>86</sup> Kr, <sup>87</sup> Rb; systematics. JOUR PRVCA 76 054312
<sup>81</sup> Ge	2007VE08	RADIOACTIVITY <sup>81</sup> Zn, <sup>81</sup> Ga, <sup>81</sup> Ge, <sup>81</sup> As ( $\beta^-$ ) [from U(d, F), E=26 MeV]; <sup>81</sup> Zn, <sup>81</sup> Ga ( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. <sup>81</sup> Ga; deduced levels, J, $\pi$ , configurations. <sup>81</sup> Ga, <sup>83</sup> As; calculated levels, J, $\pi$ , configurations. <sup>80</sup> Zn, <sup>81</sup> Ga, <sup>82</sup> Ge, <sup>83</sup> As, <sup>84</sup> Se, <sup>85</sup> Br, <sup>86</sup> Kr, <sup>87</sup> Rb; systematics. JOUR PRVCA 76 054312

**A=81 (continued)**

<sup>81</sup> As	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2007VE08	RADIOACTIVITY $^{81}\text{Zn}$ , $^{81}\text{Ga}$ , $^{81}\text{Ge}$ , $^{81}\text{As}$ ( $\beta^-$ ) [from U(d, F), E=26 MeV]; $^{81}\text{Zn}$ , $^{81}\text{Ga}$ ( $\beta^-$ n); measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ , $\beta\gamma$ -coin, half-lives. $^{81}\text{Ga}$ ; deduced levels, J, $\pi$ , configurations. $^{81}\text{Ga}$ , $^{83}\text{As}$ ; calculated levels, J, $\pi$ , configurations. $^{80}\text{Zn}$ , $^{81}\text{Ga}$ , $^{82}\text{Ge}$ , $^{83}\text{As}$ , $^{84}\text{Se}$ , $^{85}\text{Br}$ , $^{86}\text{Kr}$ , $^{87}\text{Rb}$ ; systematics. JOUR PRVCA 76 054312
<sup>81</sup> Se	2007B050	ATOMIC MASSES $^{80}\text{As}$ , $^{81}\text{Se}$ ; measured masses a penning trap mass spectrometer. JOUR ZSTNE 150 337
	2007LU18	NUCLEAR REACTIONS $^{175}\text{Lu}$ , $^{198}\text{Pt}$ , $^{82}\text{Se}(n, 2n)$ , E=13.5-14.6 MeV; measured $E\gamma$ , $I\gamma$ ; deduced cross sections, isomeric cross section ratios. $^{93}\text{Nb}(n, 2n)$ , E=13.5-14.6 MeV; compared cross sections. Comparisons with nuclear model calculations using the HFTT code. JOUR NIMBE 265 453
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008NA01	NUCLEAR REACTIONS $^{80}\text{Se}(n, \gamma)$ , E=thermal; measured $E\gamma$ , $I\gamma$ , thermal neutron capture cross sections to the ground and isomeric states using stacked foil activation. JOUR JNSTA 45 116

**A=81 (continued)**

<sup>81</sup> Br	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>81</sup> Kr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>81</sup> Rb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>79,80,81,82,83,84,85,86,87,88,89,90</sup> Rb, <sup>81,82,83,84,85,86,87,88,89,90,91,92,93</sup> Sr, <sup>84,85,86,87,88,89,90,91,92,93,94,95,96</sup> Y, <sup>86,87,88,89,90,91,92,93,94,95,96,97,98,99</sup> Zr, <sup>87,88,89,90,91,92,93,94,95,96,97,98,99,100</sup> Nb, <sup>90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup> Mo, <sup>92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup> Tc, <sup>95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup> Ru, <sup>97,98,99,100,101,102,103,104,105,106,107,108,109,110,111</sup> Rh, <sup>99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115</sup> Pd, <sup>101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> I, <sup>116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Xe, <sup>122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Cs, <sup>127,128,129,130,131,132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=81 (continued)**

<sup>81</sup> Sr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
------------------	----------	--

**A=82**

<sup>82</sup> Ge	2007VE08	RADIOACTIVITY <sup>81</sup> Zn, <sup>81</sup> Ga, <sup>81</sup> Ge, <sup>81</sup> As ( $\beta^-$ ) [from U(d, F), E=26 MeV]; <sup>81</sup> Zn, <sup>81</sup> Ga ( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. <sup>81</sup> Ga; deduced levels, J, $\pi$ , configurations. <sup>81</sup> Ga, <sup>83</sup> As; calculated levels, J, $\pi$ , configurations. <sup>80</sup> Zn, <sup>81</sup> Ga, <sup>82</sup> Ge, <sup>83</sup> As, <sup>84</sup> Se, <sup>85</sup> Br, <sup>86</sup> Kr, <sup>87</sup> Rb; systematics. JOUR PRVCA 76 054312
<sup>82</sup> Se	2007J014	NUCLEAR REACTIONS <sup>192</sup> Os( <sup>82</sup> Se, X), E=460 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>80,82</sup> Se; deduced levels, J, $\pi$ , configurations. JOUR PRVCA 76 054317
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609

**A=82 (continued)**

<sup>82</sup> Br	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>82</sup> Kr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85}\text{Br}$ , $^{76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>82</sup> Rb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=82 (*continued*)**

	2008SI05	NUCLEAR REACTIONS $^{74}\text{Ge}(\text{16O}, 4\text{n})$ , $(\text{16O}, 2\text{np})$ , $(\text{16O}, 3\text{np})$ , $(\text{16O}, 4\text{np})$ , $(\text{16O}, \text{n}\alpha)$ , $(\text{16O}, 3\text{n}\alpha)$ , $(\text{16O}, 2\text{npa})$ , $(\text{16O}, 3\text{npa})$ , $(\text{16O}, 3\text{n}2\alpha)$ , E=60.2-111.6 MeV; measured $E\gamma$ , $I\gamma$ , cross sections using stacked foil activation. JOUR CJOPA 46 27
$^{82}\text{Sr}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92,93, $^{94}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122, $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{82}\text{Nb}$	2008GA04	NUCLEAR REACTIONS $^9\text{Be}(\text{107Ag}, \text{X})^{82}\text{Nb}$ / $^{86}\text{Tc}$ , E=750 MeV / nucleon; measured fragment and delayed $\gamma$ spectra, (fragment) $\gamma$ -coin. $^{82}\text{Nb}$ , $^{86}\text{Tc}$ deduced level energies, J, $\pi$ , $T_{1/2}$ , conversion coefficients. Deformation and K hindrance discussed. JOUR PYLBB 660 326

**A=83**

$^{83}\text{As}$	2007VE08	RADIOACTIVITY $^{81}\text{Zn}$ , $^{81}\text{Ga}$ , $^{81}\text{Ge}$ , $^{81}\text{As}$ ( $\beta^-$ ) [from U(d, F), E=26 MeV]; $^{81}\text{Zn}$ , $^{81}\text{Ga}$ ( $\beta^-$ n); measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. $^{81}\text{Ga}$ ; deduced levels, J, $\pi$ , configurations. $^{81}\text{Ga}$ , $^{83}\text{As}$ ; calculated levels, J, $\pi$ , configurations. $^{80}\text{Zn}$ , $^{81}\text{Ga}$ , $^{82}\text{Ge}$ , $^{83}\text{As}$ , $^{84}\text{Se}$ , $^{85}\text{Br}$ , $^{86}\text{Kr}$ , $^{87}\text{Rb}$ ; systematics. JOUR PRVCA 76 054312
------------------	----------	---

**A=83 (continued)**

- <sup>83</sup>Se      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- <sup>83</sup>Br      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
- <sup>83</sup>Kr      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies.  $^{6,7,8}\text{Li}$ ,  $^{9,10,11,12}\text{Be}$ ,  $^{10,11,12,13}\text{B}$ ,  $^{11,12,13,14,15}\text{C}$ ,  $^{13,14,15,16,17}\text{N}$ ,  $^{15,16,17,18,19}\text{O}$ ,  $^{17,18,19,20,21}\text{F}$ ,  $^{19,20,21,22,23}\text{Ne}$ ,  $^{22,23,24,25}\text{Na}$ ,  $^{23,24,25,26,27}\text{Mg}$ ,  $^{25,26,27,28,29,30}\text{Al}$ ,  $^{28,29,30,31,32}\text{Si}$ ,  $^{30,31,32,33,34}\text{P}$ ,  $^{32,33,34,35,36,37,38}\text{S}$ ,  $^{34,35,36,37,38,39,40}\text{Cl}$ ,  $^{36,37,38,39,40,41,42,43}\text{Ar}$ ,  $^{39,40,41,42,43,44,45}\text{K}$ ,  $^{41,42,43,44,45,46,47}\text{Ca}$ ,  $^{43,44,45,46,47,48,49,50}\text{Sc}$ ,  $^{45,46,47,48,49,50,51,52}\text{Ti}$ ,  $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ ,  $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ ,  $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ ,  $^{55,56,57,58,59,60,61,62}\text{Fe}$ ,  $^{57,58,59,60,61,62,63,64,65}\text{Co}$ ,  $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ ,  $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ ,  $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ ,  $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ ,  $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ ,  $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ ,  $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ ,  $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=83 (continued)**

<sup>83</sup> Rb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>83</sup> Sr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=83 (continued)**

2008SI05 NUCLEAR REACTIONS  $^{74}\text{Ge}(^{16}\text{O}, 4\text{n})$ ,  $(^{16}\text{O}, 2\text{np})$ ,  $(^{16}\text{O}, 3\text{np})$ ,  $(^{16}\text{O}, 4\text{np})$ ,  $(^{16}\text{O}, \text{n}\alpha)$ ,  $(^{16}\text{O}, 3\text{n}\alpha)$ ,  $(^{16}\text{O}, 2\text{np}\alpha)$ ,  $(^{16}\text{O}, 3\text{np}\alpha)$ ,  $(^{16}\text{O}, 3\text{n}2\alpha)$ , E=60.2-111.6 MeV; measured  $E\gamma$ ,  $I\gamma$ , cross sections using stacked foil activation. JOUR CJOPA 46 27

**A=84**

$^{84}\text{Se}$	2007VE08	RADIOACTIVITY $^{81}\text{Zn}$ , $^{81}\text{Ga}$ , $^{81}\text{Ge}$ , $^{81}\text{As}$ ( $\beta^-$ ) [from U(d, F), E=26 MeV]; $^{81}\text{Zn}$ , $^{81}\text{Ga}$ ( $\beta^-$ -n); measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. $^{81}\text{Ga}$ ; deduced levels, J, $\pi$ , configurations. $^{81}\text{Ga}$ , $^{83}\text{As}$ ; calculated levels, J, $\pi$ , configurations. $^{80}\text{Zn}$ , $^{81}\text{Ga}$ , $^{82}\text{Ge}$ , $^{83}\text{As}$ , $^{84}\text{Se}$ , $^{85}\text{Br}$ , $^{86}\text{Kr}$ , $^{87}\text{Rb}$ ; systematics. JOUR PRVCA 76 054312
$^{84}\text{Br}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{84}\text{Kr}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45,46,47}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=84 (*continued*)**

- <sup>84</sup>Rb      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>84</sup>Sr      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=84 (*continued*)**

<sup>84</sup> Y	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> 98, <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> 98, <sup>99</sup> 100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> 98, <sup>99</sup> 100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> 98, <sup>99</sup> 100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> 100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126, <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> , <sup>131</sup> , <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> , <sup>131</sup> , <sup>132</sup> , <sup>133</sup> , <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> , <sup>131</sup> , <sup>132</sup> , <sup>133</sup> , <sup>134</sup> , <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> , <sup>131</sup> , <sup>132</sup> , <sup>133</sup> , <sup>134</sup> , <sup>135</sup> Xe, 122,123,124,125,126,127,128,129, <sup>130</sup> , <sup>131</sup> , <sup>132</sup> , <sup>133</sup> , <sup>134</sup> , <sup>135</sup> , <sup>136</sup> Cs, 127,128,129, <sup>130</sup> , <sup>131</sup> , <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
-----------------	----------	--

**A=85**

<sup>85</sup> Br	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
	2007VE08	RADIOACTIVITY <sup>81</sup> Zn, <sup>81</sup> Ga, <sup>81</sup> Ge, <sup>81</sup> As ( $\beta^-$ ) [from U(d, F), E=26 MeV]; <sup>81</sup> Zn, <sup>81</sup> Ga ( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. <sup>81</sup> Ga; deduced levels, J, $\pi$ , configurations. <sup>81</sup> Ga, <sup>83</sup> As; calculated levels, J, $\pi$ , configurations. <sup>80</sup> Zn, <sup>81</sup> Ga, <sup>82</sup> Ge, <sup>83</sup> As, <sup>84</sup> Se, <sup>85</sup> Br, <sup>86</sup> Kr, <sup>87</sup> Rb; systematics. JOUR PRVCA 76 054312

**A=85 (*continued*)**

- <sup>85</sup>Kr      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup>Li, <sup>9,10,11,12</sup>Be, <sup>10,11,12,13</sup>B, <sup>11,12,13,14,15</sup>C, <sup>13,14,15,16,17</sup>N, <sup>15,16,17,18,19</sup>O, <sup>17,18,19,20,21</sup>F, <sup>19,20,21,22,23</sup>Ne, <sup>22,23,24,25</sup>Na, <sup>23,24,25,26,27</sup>Mg, <sup>25,26,27,28,29,30</sup>Al, <sup>28,29,30,31,32</sup>Si, <sup>30,31,32,33,34</sup>P, <sup>32,33,34,35,36,37,38</sup>S, <sup>34,35,36,37,38,39,40</sup>Cl, <sup>36,37,38,39,40,41,42,43</sup>Ar, <sup>39,40,41,42,43,44,45</sup>K, <sup>41,42,43,44,45,46,47</sup>Ca, <sup>43,44,45,46,47,48,49,50</sup>Sc, <sup>45,46,47,48,49,50,51,52</sup>Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup>V, <sup>49,50,51,52,53,54,55,56,57</sup>Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup>Mn, <sup>55,56,57,58,59,60,61,62</sup>Fe, <sup>57,58,59,60,61,62,63,64,65</sup>Co, <sup>59,60,61,62,63,64,65,66,67</sup>Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup>Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup>Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup>Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup>Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup>As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup>Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup>Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup>Kr; measured cross sections. JOUR PRVCA 76 064609
- <sup>85</sup>Rb      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>79,80,81,82,83,84,85,86,87,88,89,90</sup>Rb, <sup>81,82,83,84,85,86,87,88,89,90,91,92,93</sup>Sr, <sup>84,85,86,87,88,89,90,91,92,93,94,95,96</sup>Y, <sup>86,87,88,89,90,91,92,93,94,95,96,97,98,99</sup>Zr, <sup>87,88,89,90,91,92,93,94,95,96,97,98,99,100</sup>Nb, <sup>90,91,92,93,94,95,96,97,98,99,100,101,102,103,104</sup>Mo, <sup>92,93,94,95,96,97,98,99,100,101,102,103,104,105,106</sup>Tc, <sup>95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup>Ru, <sup>97,98,99,100,101,102,103,104,105,106,107,108,109,110,111</sup>Rh, <sup>99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115</sup>Pd, <sup>101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125</sup>Ag, <sup>104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125</sup>Cd, <sup>105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127</sup>In, <sup>108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134</sup>Te, <sup>111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup>I, <sup>116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup>Xe, <sup>122,123,124,125,126,127,128,129,130,131,132,133,134,135,136</sup>Cs, <sup>127,128,129,130,131,132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=85 (continued)**

<sup>85</sup> Sr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Tc, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>107</sup> Ru, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609
<sup>85</sup> Y	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Tc, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>107</sup> Ru, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609

**A=85 (continued)**

2008SI05 NUCLEAR REACTIONS  $^{74}\text{Ge}$ ( $^{16}\text{O}$ , 4n), ( $^{16}\text{O}$ , 2np), ( $^{16}\text{O}$ , 3np), ( $^{16}\text{O}$ , 4np), ( $^{16}\text{O}$ , n $\alpha$ ), ( $^{16}\text{O}$ , 3n $\alpha$ ), ( $^{16}\text{O}$ , 2np $\alpha$ ), ( $^{16}\text{O}$ , 3np $\alpha$ ), ( $^{16}\text{O}$ , 3n2 $\alpha$ ), E=60.2-111.6 MeV; measured E $\gamma$ , I $\gamma$ , cross sections using stacked foil activation. JOUR CJOPA 46 27

**A=86**

$^{86}\text{Kr}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Br}$ ; measured cross sections. JOUR PRVCA 76 064609
2007VE08		RADIOACTIVITY $^{81}\text{Zn}$ , $^{81}\text{Ga}$ , $^{81}\text{Ge}$ , $^{81}\text{As}$ ( $\beta^-$ ) [from U(d, F), E=26 MeV]; $^{81}\text{Zn}$ , $^{81}\text{Ga}$ ( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ , $\beta\gamma$ -coin, half-lives. $^{81}\text{Ga}$ ; deduced levels, J, $\pi$ , configurations. $^{81}\text{Ga}$ , $^{83}\text{As}$ ; calculated levels, J, $\pi$ , configurations. $^{80}\text{Zn}$ , $^{81}\text{Ga}$ , $^{82}\text{Ge}$ , $^{83}\text{As}$ , $^{84}\text{Se}$ , $^{85}\text{Br}$ , $^{86}\text{Kr}$ , $^{87}\text{Rb}$ ; systematics. JOUR PRVCA 76 054312
$^{86}\text{Rb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=86 (*continued*)**

<sup>86</sup> Sr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>86</sup> Y	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008SI05		NUCLEAR REACTIONS $^{74}\text{Ge}(^{16}\text{O}, 4\text{n})$ , $(^{16}\text{O}, 2\text{np})$ , $(^{16}\text{O}, 3\text{np})$ , $(^{16}\text{O}, 4\text{np})$ , $(^{16}\text{O}, \text{n}\alpha)$ , $(^{16}\text{O}, 3\text{n}\alpha)$ , $(^{16}\text{O}, 2\text{n}\text{p}\alpha)$ , $(^{16}\text{O}, 3\text{n}\text{p}\alpha)$ , $(^{16}\text{O}, 3\text{n}2\alpha)$ , E=60.2-111.6 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , cross sections using stacked foil activation. JOUR CJOPA 46 27

**A=86 (*continued*)**

	2008UD02	NUCLEAR REACTIONS Zr(p, X) <sup>88</sup> Zr / <sup>89</sup> Zr / <sup>86</sup> Y / <sup>87</sup> Y / <sup>88</sup> Y / <sup>90</sup> Nb / <sup>92</sup> Nb / <sup>95</sup> Nb / <sup>96</sup> Nb, E=4-40 MeV; measured E $\gamma$ , I $\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13
<sup>86</sup> Zr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93, <sup>84</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97,88,89, <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122, <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Cs, 127,128,129,130,131,132, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
	2008SI05	NUCLEAR REACTIONS <sup>74</sup> Ge( <sup>16</sup> O, 4n), ( <sup>16</sup> O, 2np), ( <sup>16</sup> O, 3np), ( <sup>16</sup> O, 4np), ( <sup>16</sup> O, n $\alpha$ ), ( <sup>16</sup> O, 3n $\alpha$ ), ( <sup>16</sup> O, 2np $\alpha$ ), ( <sup>16</sup> O, 3np $\alpha$ ), ( <sup>16</sup> O, 3n2 $\alpha$ ), E=60.2-111.6 MeV; measured E $\gamma$ , I $\gamma$ , cross sections using stacked foil activation. JOUR CJOPA 46 27
<sup>86</sup> Tc	2008GA04	NUCLEAR REACTIONS <sup>9</sup> Be( <sup>107</sup> Ag, X) <sup>82</sup> Nb / <sup>86</sup> Tc, E=750 MeV / nucleon; measured fragment and delayed $\gamma$ spectra, (fragment) $\gamma$ -coin. <sup>82</sup> Nb, <sup>86</sup> Tc deduced level energies, J, $\pi$ , T <sub>1/2</sub> , conversion coefficients. Deformation and K hindrance discussed. JOUR PYLBB 660 326

**A=87**

<sup>87</sup> Kr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>6,7,8</sup> Li, <sup>9,10,11,12</sup> Be, <sup>10,11,12,13</sup> B, <sup>11,12,13,14,15</sup> C, <sup>13,14,15,16,17</sup> N, <sup>15,16,17,18,19</sup> O, <sup>17,18,19,20,21</sup> F, <sup>19,20,21,22,23</sup> Ne, <sup>22,23,24,25</sup> Na, <sup>23,24,25,26,27</sup> Mg, <sup>25,26,27,28,29,30</sup> Al, <sup>28,29,30,31,32</sup> Si, <sup>30,31,32,33,34</sup> P, <sup>32,33,34,35,36,37,38</sup> S, <sup>34,35,36,37,38,39,40</sup> Cl, <sup>36,37,38,39,40,41,42,43</sup> Ar, <sup>39,40,41,42,43,44,45</sup> K, <sup>41,42,43,44,45,46,47</sup> Ca, <sup>43,44,45,46,47,48,49,50</sup> Sc, <sup>45,46,47,48,49,50,51,52</sup> Ti, <sup>46,47,48,49,50,51,52,53,54,55</sup> V, <sup>49,50,51,52,53,54,55,56,57</sup> Cr, <sup>50,51,52,53,54,55,56,57,58,59,60</sup> Mn, <sup>55,56,57,58,59,60,61,62</sup> Fe, <sup>57,58,59,60,61,62,63,64,65</sup> Co, <sup>59,60,61,62,63,64,65,66,67</sup> Ni, <sup>60,61,62,63,64,65,66,67,68,69,70</sup> Cu, <sup>62,63,64,65,66,67,68,69,70,71,72</sup> Zn, <sup>66,67,68,69,70,71,72,73,74,75</sup> Ga, <sup>68,69,70,71,72,73,74,75,76,77</sup> Ge, <sup>70,71,72,73,74,75,76,77,78,79,80,81</sup> As, <sup>72,73,74,75,76,77,78,79,80,81,82,83</sup> Se, <sup>74,75,76,77,78,79,80,81,82,83,84,85</sup> Br, <sup>76,77,78,79,80,81,82,83,84,85,86,87,88</sup> Kr; measured cross sections. JOUR PRVCA 76 064609
<sup>87</sup> Rb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>79,80,81,82,83,84,85,86,87,88,89,90</sup> Rb, <sup>81,82,83,84,85,86,87,88,89,90,91,92,93</sup> Sr, <sup>84,85,86,87,88,89,90,91,92,93,94,95,96</sup> Y, <sup>86,87,88,89,90,91,92,93,94,95,96,97,98,99</sup> Zr, <sup>87,88,89,90,91,92,93,94,95,96,97,98,99,100</sup> Nb, <sup>90,91,92,93,94,95,96,97,98,99,100,101,102,103,104</sup> Mo, <sup>92,93,94,95,96,97,98,99,100,101,102,103,104,105,106</sup> Tc, <sup>95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup> Ru, <sup>97,98,99,100,101,102,103,104,105,106,107,108,109,110,111</sup> Rh, <sup>99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115</sup> Pd, <sup>101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125</sup> Ag, <sup>104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125</sup> Cd, <sup>105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127</sup> In, <sup>108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130</sup> Sn, <sup>110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132</sup> Sb, <sup>111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134</sup> Te, <sup>113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> I, <sup>116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Xe, <sup>122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Cs, <sup>127,128,129,130,131,132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
	2007VE08	RADIOACTIVITY <sup>81</sup> Zn, <sup>81</sup> Ga, <sup>81</sup> Ge, <sup>81</sup> As ( $\beta^-$ ) [from U(d, F), E=26 MeV]; <sup>81</sup> Zn, <sup>81</sup> Ga ( $\beta^-$ n); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. <sup>81</sup> Ga; deduced levels, J, $\pi$ , configurations. <sup>81</sup> Ga, <sup>83</sup> As; calculated levels, J, $\pi$ , configurations. <sup>80</sup> Zn, <sup>81</sup> Ga, <sup>82</sup> Ge, <sup>83</sup> As, <sup>84</sup> Se, <sup>85</sup> Br, <sup>86</sup> Kr, <sup>87</sup> Rb; systematics. JOUR PRVCA 76 054312

**A=87 (continued)**

<sup>87</sup> Sr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>87</sup> Y	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008SI05		NUCLEAR REACTIONS <sup>74</sup> Ge( <sup>16</sup> O, 4n), ( <sup>16</sup> O, 2np), ( <sup>16</sup> O, 3np), ( <sup>16</sup> O, 4np), ( <sup>16</sup> O, n $\alpha$ ), ( <sup>16</sup> O, 3n $\alpha$ ), ( <sup>16</sup> O, 2np $\alpha$ ), ( <sup>16</sup> O, 3np $\alpha$ ), ( <sup>16</sup> O, 3n2 $\alpha$ ), E=60.2-111.6 MeV; measured E $\gamma$ , I $\gamma$ , cross sections using stacked foil activation. JOUR CJOPA 46 27

**A=87 (continued)**

	2008UD02	NUCLEAR REACTIONS Zr(p, X) <sup>88</sup> Zr / <sup>89</sup> Zr / <sup>86</sup> Y / <sup>87</sup> Y / <sup>88</sup> Y / <sup>90</sup> Nb / <sup>92</sup> Nb / <sup>95</sup> Nb / <sup>96</sup> Nb, E=4-40 MeV; measured E $\gamma$ , I $\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13
<sup>87</sup> Zr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93,Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99,Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132,Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>87</sup> Nb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93,Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99,Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132,Ba; measured cross sections. JOUR PRVCA 76 064609

**A=88**

<sup>88</sup> Kr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{6,7,8}\text{Li}$ , $^{9,10,11,12}\text{Be}$ , $^{10,11,12,13}\text{B}$ , $^{11,12,13,14,15}\text{C}$ , $^{13,14,15,16,17}\text{N}$ , $^{15,16,17,18,19}\text{O}$ , $^{17,18,19,20,21}\text{F}$ , $^{19,20,21,22,23}\text{Ne}$ , $^{22,23,24,25}\text{Na}$ , $^{23,24,25,26,27}\text{Mg}$ , $^{25,26,27,28,29,30}\text{Al}$ , $^{28,29,30,31,32}\text{Si}$ , $^{30,31,32,33,34}\text{P}$ , $^{32,33,34,35,36,37,38}\text{S}$ , $^{34,35,36,37,38,39,40}\text{Cl}$ , $^{36,37,38,39,40,41,42,43}\text{Ar}$ , $^{39,40,41,42,43,44,45}\text{K}$ , $^{41,42,43,44,45,46,47}\text{Ca}$ , $^{43,44,45,46,47,48,49,50}\text{Sc}$ , $^{45,46,47,48,49,50,51,52}\text{Ti}$ , $^{46,47,48,49,50,51,52,53,54,55}\text{V}$ , $^{49,50,51,52,53,54,55,56,57}\text{Cr}$ , $^{50,51,52,53,54,55,56,57,58,59,60}\text{Mn}$ , $^{55,56,57,58,59,60,61,62}\text{Fe}$ , $^{57,58,59,60,61,62,63,64,65}\text{Co}$ , $^{59,60,61,62,63,64,65,66,67}\text{Ni}$ , $^{60,61,62,63,64,65,66,67,68,69,70}\text{Cu}$ , $^{62,63,64,65,66,67,68,69,70,71,72}\text{Zn}$ , $^{66,67,68,69,70,71,72,73,74,75}\text{Ga}$ , $^{68,69,70,71,72,73,74,75,76,77}\text{Ge}$ , $^{70,71,72,73,74,75,76,77,78,79,80,81}\text{As}$ , $^{72,73,74,75,76,77,78,79,80,81,82,83}\text{Se}$ , $^{74,75,76,77,78,79,80,81,82,83,84,85,86,87,88}\text{Kr}$ ; measured cross sections. JOUR PRVCA 76 064609
<sup>88</sup> Rb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134}\text{Te}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135,136}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=88 (*continued*)**

<sup>88</sup> Sr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>88</sup> Y	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008UD02		NUCLEAR REACTIONS Zr(p, X) <sup>88</sup> Zr / <sup>89</sup> Zr / <sup>87</sup> Y / <sup>87</sup> Y / <sup>88</sup> Y / <sup>90</sup> Nb / <sup>92</sup> Nb / <sup>95</sup> Nb / <sup>96</sup> Nb, E=4-40 MeV; measured E $\gamma$ , I $\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13

**A=88 (*continued*)**

<sup>88</sup> Zr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>2008UD02</sup>		NUCLEAR REACTIONS Zr(p, X) <sup>88</sup> Zr / <sup>89</sup> Zr / <sup>87</sup> Y / <sup>88</sup> Y / <sup>90</sup> Nb / <sup>92</sup> Nb / <sup>95</sup> Nb / <sup>96</sup> Nb, E=4-40 MeV; measured E $\gamma$ , I $\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13
<sup>88</sup> Nb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=89**

<sup>89</sup> Rb	2007BU35	NUCLEAR REACTIONS $^{208}\text{Pb}$ ( $^{90}\text{Zr}$ , X) $^{89}\text{Rb}$ , E=590 MeV; $^{238}\text{U}$ ( $^{82}\text{Se}$ , X) $^{92}\text{Y}$ / $^{93}\text{Y}$ , E=505 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma\gamma$ -coin, angular distribution, multipolarity. $^{89}\text{Rb}$ , $^{92,93}\text{Y}$ ; deduced levels, J, $\pi$ , configurations. Comparisons to shell model calculations, and structure in $^{94}\text{Nb}$ . JOUR PRVCA 76 064301
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{97}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Cs}$ , 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>89</sup> Sr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{97}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Cs}$ , 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=89 (*continued*)**

<sup>89</sup> Y	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Mo, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
20080H02		NUCLEAR REACTIONS $^{56}\text{Fe}$ , $^{89}\text{Y}$ , $^{208}\text{Pb}(\text{n}, \text{n})$ , E=96 MeV; measured $\sigma(\theta)$ ; $^{12}\text{C}$ , $^{16}\text{O}$ ; systematics, compared with Wick's limit. JOUR PRVCA 77 024605
<sup>89</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Mo, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008AT01		NUCLEAR REACTIONS $^{90}\text{Zr}(\text{n}, 2\text{n})$ , E=13.73-14.77 MeV; measured $E_\gamma$ , $I_\gamma$ , $\sigma$ for metastable state production; calculated $\sigma(E)$ using EMPIRE and TALYS codes. JOUR NUPAB 802 1

**A=89 (*continued*)**

- 2008UD02 NUCLEAR REACTIONS Zr(p, X)<sup>88</sup>Zr / <sup>89</sup>Zr / <sup>86</sup>Y / <sup>87</sup>Y / <sup>88</sup>Y / <sup>90</sup>Nb / <sup>92</sup>Nb / <sup>95</sup>Nb / <sup>96</sup>Nb, E=4-40 MeV; measured E $\gamma$ , I $\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13
- <sup>89</sup>Nb 2007NA31 NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- 2008UD01 NUCLEAR REACTIONS Mo(p, X)<sup>89g</sup>Nb / <sup>93m,93g</sup>Tc / <sup>94m</sup>Tc, E=25.9-67.8 MeV; Mo(p, X)<sup>90</sup>Mo / <sup>97</sup>Nb, E=31.9-67.8 MeV; Mo(p, X)<sup>89m</sup>Nb, E=46.6-67.8 MeV; measured E $\gamma$ , I $\gamma$ , excitation functions, cross sections and integral yields using stacked-foil activation technique, natural Mo target. <sup>89</sup>Nb, <sup>89m</sup>Nb, <sup>90</sup>Mo, <sup>93m</sup>Tc, <sup>93g</sup>Tc, <sup>94m</sup>Tc, <sup>97</sup>Nb; isotopic yields and production. JOUR ARISE 66 208

**A=90**

<sup>90</sup> Rb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>90</sup> Sr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=90 (*continued*)**

<sup>90</sup> Y	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>90</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=90 (*continued*)**

<sup>90</sup> Nb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2008UD02		NUCLEAR REACTIONS $\text{Zr}(\text{p}, \text{X})^{88}\text{Zr} / ^{89}\text{Zr} / ^{87}\text{Y} / ^{88}\text{Y} / ^{90}\text{Nb} / ^{92}\text{Nb} / ^{95}\text{Nb} / ^{96}\text{Nb}$ , E=4-40 MeV; measured $E\gamma$ , $I\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13
<sup>90</sup> Mo	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=90 (*continued*)**

2008UD01 NUCLEAR REACTIONS Mo(p, X)<sup>89g</sup>Nb / <sup>93m,93g</sup>Tc / <sup>94m</sup>Tc, E=25.9-67.8 MeV; Mo(p, X)<sup>90</sup>Mo / <sup>97</sup>Nb, E=31.9-67.8 MeV; Mo(p, X)<sup>89m</sup>Nb, E=46.6-67.8 MeV; measured E $\gamma$ , I $\gamma$ , excitation functions, cross sections and integral yields using stacked-foil activation technique, natural Mo target. <sup>89</sup>Nb, <sup>89m</sup>Nb, <sup>90</sup>Mo, <sup>93m</sup>Tc, <sup>93g</sup>Tc, <sup>94m</sup>Tc, <sup>97</sup>Nb; isotopic yields and production. JOUR ARISE 66 208

**A=91**

<sup>91</sup>Sr 2007NA31 NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=91 (*continued*)**

<sup>91</sup> Y	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>91</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=91 (*continued*)**

- <sup>91</sup>Nb      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Zr, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup><sup>100</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>91</sup>Mo      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Zr, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup><sup>100</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=92**

<sup>92</sup> Sr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Cs</sup> , 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>92</sup> Y	2007BU35	NUCLEAR REACTIONS $^{208}\text{Pb}(^{90}\text{Zr}, \text{X})^{89}\text{Rb}$ , E=590 MeV; $^{238}\text{U}(^{82}\text{Se}, \text{X})^{92}\text{Y} / ^{93}\text{Y}$ , E=505 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma\gamma$ -coin, angular distribution, multipolarity. <sup>89</sup> Rb, <sup>92,93</sup> Y; deduced levels, J, $\pi$ , configurations. Comparisons to shell model calculations, and structure in <sup>94</sup> Nb. JOUR PRVCA 76 064301
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103, <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Cs</sup> , 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=92 (continued)**

<sup>92</sup> Zr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99, <sup>100</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>92</sup> Nb	2007LU18	NUCLEAR REACTIONS <sup>175</sup> Lu, <sup>198</sup> Pt, <sup>82</sup> Se(n, 2n), E=13.5-14.6 MeV; measured E $\gamma$ , I $\gamma$ ; deduced cross sections, isomeric cross section ratios. <sup>93</sup> Nb(n, 2n), E=13.5-14.6 MeV; compared cross sections. Comparisons with nuclear model calculations using the HFTT code. JOUR NIMBE 265 453
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=92 (continued)**

2008UD02	NUCLEAR REACTIONS Zr(p, X) <sup>88</sup> Zr / <sup>89</sup> Zr / <sup>86</sup> Y / <sup>87</sup> Y / <sup>88</sup> Y / <sup>90</sup> Nb / <sup>92</sup> Nb / <sup>95</sup> Nb / <sup>96</sup> Nb, E=4-40 MeV; measured E $\gamma$ , I $\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13
<sup>92</sup> Mo	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93,Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99,Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132,Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>92</sup> Tc	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93,Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99,Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132,Ba; measured cross sections. JOUR PRVCA 76 064609

**A=93**

<sup>93</sup> Sr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>93</sup> Y	2007BU35	NUCLEAR REACTIONS $^{208}\text{Pb}({}^{90}\text{Zr}, \text{X})^{89}\text{Rb}$ , E=590 MeV; $^{238}\text{U}({}^{82}\text{Se}, \text{X})^{92}\text{Y} / {}^{93}\text{Y}$ , E=505 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma\gamma$ -coin, angular distribution, multipolarity. <sup>89</sup> Rb, <sup>92,93</sup> Y; deduced levels, J, $\pi$ , configurations. Comparisons to shell model calculations, and structure in <sup>94</sup> Nb. JOUR PRVCA 76 064301
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=93 (continued)**

<sup>93</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127Ag, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>93</sup> Nb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127Ag, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>93</sup> Mo	2007LU19	NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV; $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96}\text{Tc} / ^{96m}\text{Tc} / ^{102m}\text{Tc} / ^{104}\text{Tc}$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo} / ^{99}\text{Mo} / ^{101}\text{Mo}$ , E=13.5-14.8 MeV; $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured E $\gamma$ , cross sections. JOUR PRVCA 76 057601

**A=93 (continued)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{93}\text{Tc}$	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
2008UD01	NUCLEAR REACTIONS $\text{Mo}(\text{p}, \text{X})^{89g}\text{Nb}$ / $^{93m,93g}\text{Tc}$ / $^{94m}\text{Tc}$ , E=25.9-67.8 MeV; $\text{Mo}(\text{p}, \text{X})^{90}\text{Mo}$ / $^{97}\text{Nb}$ , E=31.9-67.8 MeV; $\text{Mo}(\text{p}, \text{X})^{89m}\text{Nb}$ , E=46.6-67.8 MeV; measured $E\gamma$ , $I\gamma$ , excitation functions, cross sections and integral yields using stacked-foil activation technique, natural Mo target. $^{89}\text{Nb}$ , $^{89m}\text{Nb}$ , $^{90}\text{Mo}$ , $^{93m}\text{Tc}$ , $^{93g}\text{Tc}$ , $^{94m}\text{Tc}$ , $^{97}\text{Nb}$ ; isotopic yields and production. JOUR ARISE 66 208

**A=94**

<sup>94</sup> Y	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>94</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=94 (*continued*)**

- <sup>94</sup>Nb      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Zr, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup><sup>100</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>94</sup>Mo      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Zr, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup><sup>100</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=94 (*continued*)**

- <sup>94</sup>Tc      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Zr, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- 2008UD01      NUCLEAR REACTIONS Mo(p, X)<sup>89g</sup>Nb / <sup>93m,93g</sup>Tc / <sup>94m</sup>Tc, E=25.9-67.8 MeV; Mo(p, X)<sup>90</sup>Mo / <sup>97</sup>Nb, E=31.9-67.8 MeV; Mo(p, X)<sup>89m</sup>Nb, E=46.6-67.8 MeV; measured E $\gamma$ , I $\gamma$ , excitation functions, cross sections and integral yields using stacked-foil activation technique, natural Mo target. <sup>89</sup>Nb, <sup>89m</sup>Nb, <sup>90</sup>Mo, <sup>93m</sup>Tc, <sup>93g</sup>Tc, <sup>94m</sup>Tc, <sup>97</sup>Nb; isotopic yields and production. JOUR ARISE 66 208

**A=95**

<sup>95</sup> Y	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>95</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=95 (continued)**

<sup>95</sup> Nb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2008UD02		NUCLEAR REACTIONS $\text{Zr}(\text{p}, \text{X})^{88}\text{Zr} / ^{89}\text{Zr} / ^{87}\text{Y} / ^{88}\text{Y} / ^{90}\text{Nb} / ^{92}\text{Nb} / ^{95}\text{Nb} / ^{96}\text{Nb}$ , E=4-40 MeV; measured $E\gamma$ , $I\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13
<sup>95</sup> Mo	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2007SH46		NUCLEAR REACTIONS $^{94,95}\text{Mo}(\text{n}, \gamma)$ , E=800 MeV; measured neutron energies, $E\gamma$ , $I\gamma$ , $\gamma$ -ray multiplicities. <sup>95,96</sup> Mo; deduced neutron resonance levels, $J$ , $\pi$ . JOUR PRVCA 76 064317

**A=95 (*continued*)**

<sup>95</sup> Tc	2007LU19	NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV; $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96}\text{Tc} / ^{96m}\text{Tc} / ^{102m}\text{Tc} / ^{104}\text{Tc}$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo} / ^{99}\text{Mo} / ^{101}\text{Mo}$ , E=13.5-14.8 MeV; $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , cross sections. JOUR PRVCA 76 057601
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100Zr, 81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>95</sup> Ru	2007LU19	NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV; $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96}\text{Tc} / ^{96m}\text{Tc} / ^{102m}\text{Tc} / ^{104}\text{Tc}$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo} / ^{99}\text{Mo} / ^{101}\text{Mo}$ , E=13.5-14.8 MeV; $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , cross sections. JOUR PRVCA 76 057601

**A=95 (*continued*)**

2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=96**

$^{96}\text{Y}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=96 (continued)**

<sup>96</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>115</sup> Pd, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>1</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609
<sup>96</sup> Nb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>115</sup> Pd, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>1</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609
2008UD02		NUCLEAR REACTIONS $\text{Zr}(\text{p}, \text{X})^{88}\text{Zr} / ^{89}\text{Zr} / ^{87}\text{Y} / ^{88}\text{Y} / ^{90}\text{Nb} / ^{92}\text{Nb} / ^{95}\text{Nb} / ^{96}\text{Nb}$ , E=4-40 MeV; measured $E\gamma$ , $I\gamma$ , cross sections, and excitation functions using the stacked foil activation technique. JOUR NIMBE 266 13
<sup>96</sup> Mo	2007KR19	NUCLEAR REACTIONS $^{96}\text{Mo}(^{138}\text{Xe}, ^{138}\text{Xe}')$ , $(^{140}\text{Xe}, ^{140}\text{Xe}')$ , $(^{142}\text{Xe}, ^{142}\text{Xe}')$ , E=2.84 MeV / nucleon; measured $E\gamma$ , $I\gamma$ . $^{138,140,142}\text{Xe}$ ; deduced $B(E2)$ . JOUR ZSTNE 150 127

**A=96** (*continued*)

- 2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
- 2007SH46 NUCLEAR REACTIONS  $^{94,95}\text{Mo}(\text{n}, \gamma)$ , E=800 MeV; measured neutron energies,  $\text{E}\gamma$ ,  $\text{I}\gamma$ ,  $\gamma$ -ray multiplicities.  $^{95,96}\text{Mo}$ ; deduced neutron resonance levels,  $\text{J}$ ,  $\pi$ . JOUR PRVCA 76 064317
- $^{96}\text{Tc}$  2007LU19 NUCLEAR REACTIONS  $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV;  $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV;  $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96}\text{Tc} / {^{96m}\text{Tc}} / {^{102m}\text{Tc}} / {^{104}\text{Tc}}$ , E=13.5-14.8 MeV;  $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo} / {^{99}\text{Mo}} / {^{101}\text{Mo}}$ , E=13.5-14.8 MeV;  $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured  $\text{E}\gamma$ ,  $\text{I}\gamma$ , cross sections. JOUR PRVCA 76 057601

**A=96 (*continued*)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>96</sup> Ru	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=97**

<sup>97</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>97</sup> Nb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2008UD01		NUCLEAR REACTIONS Mo(p, X) <sup>89g</sup> Nb / <sup>93m,93g</sup> Tc / <sup>94m</sup> Tc, E=25.9-67.8 MeV; Mo(p, X) <sup>90</sup> Mo / <sup>97</sup> Nb, E=31.9-67.8 MeV; Mo(p, X) <sup>89m</sup> Nb, E=46.6-67.8 MeV; measured E $\gamma$ , I $\gamma$ , excitation functions, cross sections and integral yields using stacked-foil activation technique, natural Mo target. <sup>89</sup> Nb, <sup>89m</sup> Nb, <sup>90</sup> Mo, <sup>93m</sup> Tc, <sup>93g</sup> Tc, <sup>94m</sup> Tc, <sup>97</sup> Nb; isotopic yields and production. JOUR ARISE 66 208

**A=97 (continued)**

<sup>97</sup> Mo	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>97</sup> Tc	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>97</sup> Ru	2007LU19	NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV; $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96}\text{Tc} / ^{96m}\text{Tc} / ^{102m}\text{Tc} / ^{104}\text{Tc}$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo} / ^{99}\text{Mo} / ^{101}\text{Mo}$ , E=13.5-14.8 MeV; $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured E $\gamma$ , cross sections. JOUR PRVCA 76 057601

**A=97 (*continued*)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>97</sup> Rh	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=98**

<sup>98</sup> Zr	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>98</sup> Nb	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=98 (*continued*)**

- <sup>98</sup>Mo      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,<sup>108</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>98</sup>Tc      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,<sup>108</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=98 (*continued*)**

<sup>98</sup> Ru	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>98</sup> Rh	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=99**

<sup>99</sup> Zr	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>99</sup> Nb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>99</sup> Mo	2007LU19	NUCLEAR REACTIONS <sup>27</sup> Al(n, $\alpha$ ), E=13.5-14.8 MeV; <sup>96,98,104</sup> Ru(n, 2n), E=13.5-14.8 MeV; <sup>96,102,104</sup> Ru(n, p) <sup>96</sup> Tc / <sup>96m</sup> Tc / <sup>102m</sup> Tc / <sup>104</sup> Tc, E=13.5-14.8 MeV; <sup>96,102,104</sup> Ru(n, $\alpha$ ) <sup>93m</sup> Mo / <sup>99</sup> Mo / <sup>101</sup> Mo, E=13.5-14.8 MeV; <sup>96</sup> Ru(n, d) <sup>95m</sup> Tc, E=13.5-14.8 MeV; measured E $\gamma$ , I $\gamma$ , cross sections. JOUR PRVCA 76 057601

**A=99 (*continued*)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>99</sup> Tc	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=99 (*continued*)**

<sup>99</sup> Ru	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>99</sup> Rh	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=99 (*continued*)**

- <sup>99</sup>Pd      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Zr, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>99</sup>Ag      2007MA92      ATOMIC MASSES <sup>99,101,103</sup>Ag, <sup>101,102,103,104</sup>Cd, <sup>102,103,104,105</sup>In, <sup>105,106</sup>Sn, <sup>107,109,111</sup>Sb, <sup>109,110,111,112</sup>Te, <sup>111,112,113</sup>I, <sup>113</sup>Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup>Sn, <sup>105</sup>Sb, <sup>108</sup>Te, <sup>109</sup>I, <sup>112</sup>Xe, <sup>113</sup>Cs; evaluated masses. JOUR ZAANE 34 341

**A=100**

$^{100}\text{Nb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $^{136}\text{Cs}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{100}\text{Mo}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $^{136}\text{Cs}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=100 (*continued*)**

<sup>100</sup> Tc	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>100</sup> Ru	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=100 (*continued*)**

<sup>100</sup> Rh	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>100</sup> Pd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=101**

$^{101}\text{Mo}$	2007LU19	NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV; $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96}\text{Tc} / ^{96m}\text{Tc} / ^{102m}\text{Tc} / ^{104}\text{Tc}$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo} / ^{99}\text{Mo} / ^{101}\text{Mo}$ , E=13.5-14.8 MeV; $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , cross sections. JOUR PRVCA 76 057601
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
$^{101}\text{Tc}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=101 (*continued*)**

<sup>101</sup> Ru	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>Zr</sup> , 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> <sup>Nb</sup> , 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> <sup>Mo</sup> , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>Tc</sup> , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>Ru</sup> , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, <sup>Rh</sup> , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>Pd</sup> , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609
<sup>101</sup> Rh	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>Zr</sup> , 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> <sup>Nb</sup> , 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> <sup>Mo</sup> , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>Tc</sup> , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>Ru</sup> , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, <sup>Rh</sup> , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>Pd</sup> , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609

**A=101 (*continued*)**

- <sup>101</sup>Pd      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Mo, 92,93,94,95,96,<sup>97</sup>Tc, 95,96,<sup>97</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>101</sup>Ag      2007MA92      ATOMIC MASSES <sup>99,101,103</sup>Ag, <sup>101,102,103,104</sup>Cd, <sup>102,103,104,105</sup>In, <sup>105,106</sup>Sn, <sup>107,109,111</sup>Sb, <sup>109,110,111,112</sup>Te, <sup>111,112,113</sup>I, <sup>113</sup>Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup>Sn, <sup>105</sup>Sb, <sup>108</sup>Te, <sup>109</sup>I, <sup>112</sup>Xe, <sup>113</sup>Cs; evaluated masses. JOUR ZAANE 34 341
- 2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Mo, 92,93,94,95,96,<sup>97</sup>Tc, 95,96,<sup>97</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=101 (*continued*)**

<sup>101</sup> Cd	2007MA92	ATOMIC MASSES <sup>99,101,103</sup> Ag, <sup>101,102,103,104</sup> Cd, <sup>102,103,104,105</sup> In, <sup>105,106</sup> Sn, <sup>107,109,111</sup> Sb, <sup>109,110,111,112</sup> Te, <sup>111,112,113</sup> I, <sup>113</sup> Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup> Sn, <sup>105</sup> Sb, <sup>108</sup> Te, <sup>109</sup> I, <sup>112</sup> Xe, <sup>113</sup> Cs; evaluated masses. JOUR ZAANE 34 341
<sup>101</sup> Sn	2007LI83	RADIOACTIVITY <sup>105</sup> Te, <sup>109</sup> Xe( $\alpha$ ) [from <sup>54</sup> Fe( <sup>58</sup> Ni, 3n), E=220-225 MeV]; measured E $\alpha$ , I $\alpha$ . <sup>105</sup> Te, <sup>109</sup> Xe; deduced Q $\alpha$ . JOUR ZSTNE 150 131

**A=102**

<sup>102</sup> Mo	2007NA31	NUCLEAR REACTIONS <sup>27</sup> Al(n, $\alpha$ ), E=13.5-14.8 MeV; <sup>96,98,104</sup> Ru(n, 2n), E=13.5-14.8 MeV; <sup>96,102,104</sup> Ru(n, p) <sup>96</sup> Tc / <sup>96m</sup> Tc / <sup>102m</sup> Tc / <sup>104</sup> Tc, E=13.5-14.8 MeV; <sup>96,102,104</sup> Ru(n, $\alpha$ ) <sup>93m</sup> Mo / <sup>99</sup> Mo / <sup>101</sup> Mo, E=13.5-14.8 MeV; <sup>96</sup> Ru(n, d) <sup>95m</sup> Tc, E=13.5-14.8 MeV; measured E $\gamma$ , I $\gamma$ , cross sections. JOUR PRVCA 76 057601
<sup>102</sup> Tc	2007LU19	

**A=102 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>102</sup> Ru	2007NA31

**A=102 (*continued*)**

<sup>102</sup> Rh	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>Zr</sup> , 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> <sup>Nb</sup> , 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> <sup>Mo</sup> , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>Tc</sup> , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>Ru</sup> , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>Rh</sup> , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>Pd</sup> , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609
<sup>102</sup> Pd	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>Zr</sup> , 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> <sup>Nb</sup> , 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> <sup>Mo</sup> , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>Tc</sup> , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>Ru</sup> , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>Rh</sup> , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>Pd</sup> , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609

**A=102 (*continued*)**

<sup>102</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Tc, 90,91,92,93,94,95,96,97,98,99,100,101,102,103, <sup>104</sup> Mo, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>102</sup> Cd	2007MA92	ATOMIC MASSES <sup>99,101,103</sup> Ag, <sup>101,102,103,104</sup> Cd, <sup>102,103,104,105</sup> In, <sup>105,106</sup> Sn, <sup>107,109,111</sup> Sb, <sup>109,110,111,112</sup> Te, <sup>111,112,113</sup> I, <sup>113</sup> Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup> Sn, <sup>105</sup> Sb, <sup>108</sup> Te, <sup>109</sup> I, <sup>112</sup> Xe, <sup>113</sup> Cs; evaluated masses. JOUR ZAANE 34 341
<sup>102</sup> In	2007MA92	ATOMIC MASSES <sup>99,101,103</sup> Ag, <sup>101,102,103,104</sup> Cd, <sup>102,103,104,105</sup> In, <sup>105,106</sup> Sn, <sup>107,109,111</sup> Sb, <sup>109,110,111,112</sup> Te, <sup>111,112,113</sup> I, <sup>113</sup> Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup> Sn, <sup>105</sup> Sb, <sup>108</sup> Te, <sup>109</sup> I, <sup>112</sup> Xe, <sup>113</sup> Cs; evaluated masses. JOUR ZAANE 34 341

**A=103**

$^{103}\text{Mo}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{103}\text{Tc}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{103}\text{Ru}$	2007LU19	NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV; $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96}\text{Tc} / ^{96m}\text{Tc} / ^{102m}\text{Tc} / ^{104}\text{Tc}$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo} / ^{99}\text{Mo} / ^{101}\text{Mo}$ , E=13.5-14.8 MeV; $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured E $\gamma$ , I $\gamma$ , cross sections. JOUR PRVCA 76 057601

**A=103 (continued)**

<b><sup>2007NA31</sup></b>	<b>NUCLEAR REACTIONS</b> $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 90,91,92,93,94,95,96, <sup>97</sup> Y, 98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> Y, 98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 95,96, <sup>97</sup> Y, 98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126, <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Te, 131,132,133,134, <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Te, 131,132,133,134, <sup>135</sup> Xe, 122,123,124,125,126,127,128,129, <sup>130</sup> Te, 131,132,133,134, <sup>135</sup> Xe, 127,128,129, <sup>130</sup> Te; measured cross sections. JOUR PRVCA 76 064609
<b><sup>103</sup>Rh</b>	<b>NUCLEAR REACTIONS</b> $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 90,91,92,93,94,95,96, <sup>97</sup> Y, 98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> Y, 98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 95,96, <sup>97</sup> Y, 98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126, <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Te, 131,132,133,134, <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Te, 131,132,133,134, <sup>135</sup> Xe, 122,123,124,125,126,127,128,129, <sup>130</sup> Te, 131,132,133,134, <sup>135</sup> Xe, 127,128,129, <sup>130</sup> Te; measured cross sections. JOUR PRVCA 76 064609
<b><sup>103</sup>Pd</b>	<b>NUCLEAR REACTIONS</b> $^{98}\text{Mo}(^{12}\text{C}, 3\text{n})$ , $(^{12}\text{C}, 4\text{n})$ , $(^{12}\text{C}, 2\text{n}\alpha)$ , $(^{12}\text{C}, 3\text{n}\alpha)$ , $E=60 \text{ MeV}$ ; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ coin. <sup>103</sup> Pd, <sup>106,107</sup> Cd; deduced levels, $J$ , $\pi$ , configurations, lifetimes using recoil distance Doppler shift and differential decay cutoff methods. JOUR PRVCA 76 064302

**A=103 (continued)**

- 2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99,100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $^{136}\text{Cs}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
- $^{103}\text{Ag}$  2007MA92 ATOMIC MASSES 99,101,103 $^{103}\text{Ag}$ , 101,102,103,104 $^{104}\text{Cd}$ , 102,103,104,105 $^{105}\text{In}$ , 105,106 $^{106}\text{Sn}$ , 107,109,111 $^{111}\text{Sb}$ , 109,110,111,112 $^{112}\text{Te}$ , 111,112,113 $^{113}\text{I}$ , 113 $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. 104 $^{104}\text{Sn}$ , 105 $^{105}\text{Sb}$ , 108 $^{108}\text{Te}$ , 109 $^{109}\text{I}$ , 112 $^{112}\text{Xe}$ , 113 $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
- 2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $^{136}\text{Cs}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=103 (continued)**

	2008RA06	NUCLEAR REACTIONS $^{72}\text{Ge}(\text{n}, 2\text{n}2\text{p}\gamma)$ , E=135 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, angular distributions, half-lives; deduced level energies, $J$ , $\pi$ , $B(M1)$ , $B(E2)$ , configurations, existence of magnetic dipole bands. JOUR PRVCA 77 024305
	2008UD03	NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{xn})^{104}\text{Cd}$ / $^{105}\text{Cd}$ , E=32-60 MeV; $\text{Ag}(\text{p}, \text{xnp})^{103}\text{Ag}$ / $^{104}\text{Ag}$ , E=32-60 MeV; measured $E\gamma$ , $I\gamma$ , excitation functions using stacked foil activation. Compared results to precompound hybrid model calculations. JOUR RAACA 96 67
$^{103}\text{Cd}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
$^{103}\text{In}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341

**A=104**

$^{104}\text{Mo}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90, Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93, Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99, Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, Ru, 97,98,99,100,101,102,103,104,105,106,107,108, Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122, Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124, Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135, Cs, 127,128,129,130,131,132 Ba; measured cross sections. JOUR PRVCA 76 064609
$^{104}\text{Tc}$	2007LU19	NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \alpha)$ , E=13.5-14.8 MeV; $^{96,98,104}\text{Ru}(\text{n}, 2\text{n})$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \text{p})^{96}\text{Tc}$ / $^{96m}\text{Tc}$ / $^{102m}\text{Tc}$ / $^{104}\text{Tc}$ , E=13.5-14.8 MeV; $^{96,102,104}\text{Ru}(\text{n}, \alpha)^{93m}\text{Mo}$ / $^{99}\text{Mo}$ / $^{101}\text{Mo}$ , E=13.5-14.8 MeV; $^{96}\text{Ru}(\text{n}, \text{d})^{95m}\text{Tc}$ , E=13.5-14.8 MeV; measured $E\gamma$ , $I\gamma$ , cross sections. JOUR PRVCA 76 057601

**A=104 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>104</sup> Ru	2007NA31

**A=104 (continued)**

$^{104}\text{Rh}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{104}\text{Pd}$	2007AS07	NUCLEAR REACTIONS $^{98}\text{Mo}(^{12}\text{C}, 3\text{n})$ , $(^{12}\text{C}, 4\text{n})$ , $(^{12}\text{C}, 2\text{n}\alpha)$ , $(^{12}\text{C}, 3\text{n}\alpha)$ , E=60 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ coin. $^{103}\text{Pd}$ , $^{106,107}\text{Cd}$ ; deduced levels, J, $\pi$ , configurations, lifetimes using recoil distance Doppler shift and differential decay cutoff methods. JOUR PRVCA 76 064302
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=104 (*continued*)**

	2008ST04	NUCLEAR REACTIONS $^{104}\text{Pd}$ ( $^{67}\text{Cu}, ^{67}\text{Cu}'$ ), ( $^{69}\text{Cu}, ^{69}\text{Cu}'$ ), ( $^{71}\text{Cu}, ^{71}\text{Cu}'$ ), E=2.99 MeV / nucleon; $^{120}\text{Sn}$ ( $^{71}\text{Cu}, ^{71}\text{Cu}'$ ), ( $^{73}\text{Cu}, ^{73}\text{Cu}'$ ), E=2.99 MeV / nucleon; measured $E\gamma, I\gamma$ following coulomb excitation. $^{67,69,71,73}\text{Cu}$ ; deduced level energies, B(E2). JOUR PRLTA 100 112502
$^{104}\text{Ag}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008UD03	NUCLEAR REACTIONS Ag(p, xn) $^{104}\text{Cd}$ / $^{105}\text{Cd}$ , E=32-60 MeV; Ag(p, xnp) $^{103}\text{Ag}$ / $^{104}\text{Ag}$ , E=32-60 MeV; measured $E\gamma, I\gamma$ , excitation functions using stacked foil activation. Compared results to precompound hybrid model calculations. JOUR RAACA 96 67
$^{104}\text{Cd}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341

**A=104 (continued)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $^{136}\text{Cs}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008UD03	NUCLEAR REACTIONS Ag(p, xn) $^{104}\text{Cd}$ / $^{105}\text{Cd}$ , E=32-60 MeV; Ag(p, xnp) $^{103}\text{Ag}$ / $^{104}\text{Ag}$ , E=32-60 MeV; measured $E\gamma$ , $I\gamma$ , excitation functions using stacked foil activation.Compared results to precompound hybrid model calculations. JOUR RAACA 96 67
$^{104}\text{In}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
$^{104}\text{Sn}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341

**A=105**

- $^{105}\text{Tc}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ ,  $E=1\text{ GeV}$  / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $\text{Tc}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 $\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
- $^{105}\text{Ru}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ ,  $E=1\text{ GeV}$  / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $\text{Tc}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 $\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=105 (*continued*)**

<sup>105</sup> Rh	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>Zr</sup> , 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> <sup>Nb</sup> , 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> <sup>Mo</sup> , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>Tc</sup> , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>Ru</sup> , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>Rh</sup> , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>Pd</sup> , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609
<sup>105</sup> Pd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>Zr</sup> , 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> <sup>Nb</sup> , 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> <sup>Mo</sup> , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>Tc</sup> , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>Ru</sup> , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>Rh</sup> , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>Pd</sup> , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>Ag</sup> , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>Cd</sup> , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>In</sup> , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>Sn</sup> , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>Sb</sup> , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>I</sup> , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>Xe</sup> , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>Cs</sup> , 127,128,129,130,131,132 <sup>Ba</sup> ; measured cross sections. JOUR PRVCA 76 064609

**A=105 (*continued*)**

$^{105}\text{Ag}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{105}\text{Cd}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
2008UD03		NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{xn})^{104}\text{Cd}$ / $^{105}\text{Cd}$ , $E=32\text{-}60\text{ MeV}$ ; $\text{Ag}(\text{p}, \text{xnp})^{103}\text{Ag}$ / $^{104}\text{Ag}$ , $E=32\text{-}60\text{ MeV}$ ; measured $E\gamma$ , $I\gamma$ , excitation functions using stacked foil activation. Compared results to precompound hybrid model calculations. JOUR RAACA 96 67

**A=105 (*continued*)**

$^{105}\text{In}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{In}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sn}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Sb}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{105}\text{Sn}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
$^{105}\text{Sb}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
$^{105}\text{Te}$	2007LI83	RADIOACTIVITY $^{105}\text{Te}$ , $^{109}\text{Xe}(\alpha)$ [from $^{54}\text{Fe}({}^{58}\text{Ni}, 3\text{n})$ , E=220-225 MeV]; measured E $\alpha$ , I $\alpha$ . $^{105}\text{Te}$ , $^{109}\text{Xe}$ ; deduced Q $\alpha$ . JOUR ZSTNE 150 131

**A=106**

$^{106}\text{Mo}$	2008SA05	RADIOACTIVITY $^{106}\text{Tc}(\beta^+)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=25 MeV]; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, T <sub>1/2</sub> , B(E2) using advanced time-delayed method. $^{106}\text{Ru}$ deduced levels, J, $\pi$ , T <sub>1/2</sub> . Comparison with various models. JOUR ZAANE 35 159
-------------------	----------	---

**A=106 (*continued*)**

$^{106}\text{Tc}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{106}\text{Ru}$	2008SA05	RADIOACTIVITY $^{106}\text{Tc}(\beta^+)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=25 MeV]; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma-$ , $\beta\gamma$ -coin, $T_{1/2}$ , B(E2) using advanced time-delayed method. $^{106}\text{Ru}$ deduced levels, J, $\pi$ , $T_{1/2}$ . Comparison with various models. JOUR ZAANE 35 159
$^{106}\text{Ru}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

### A=106 (*continued*)

- |                   |  |
|-------------------|--|
| 2008SA05          | RADIOACTIVITY $^{106}\text{Tc}(\beta^+)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=25 MeV]; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -, $\beta\gamma$ -coin, $\text{T}_{1/2}$ , $\text{B}(\text{E}2)$ using advanced time-delayed method. $^{106}\text{Ru}$ deduced levels, $\text{J}$ , $\pi$ , $\text{T}_{1/2}$ . Comparison with various models.<br>JOUR ZAANE 35 159   |
| $^{106}\text{Rh}$ | 2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^4\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{\text{In}}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{\text{Te}}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{\text{I}}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{\text{Xe}}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{\text{Cs}}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609 |
| $^{106}\text{Pd}$ | 2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^4\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{\text{In}}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{\text{Te}}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{\text{I}}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{\text{Xe}}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135 $^{\text{Cs}}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609 |

**A=106 (*continued*)**

$^{106}\text{Ag}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,90,91,92,93,94,95,96,97,98,99, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,134,135, $^{135}\text{I}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
$^{106}\text{Cd}$	2007AS07	NUCLEAR REACTIONS $^{98}\text{Mo}(\text{C}^{12}, 3\text{n})$ , $(\text{C}^{12}, 4\text{n})$ , $(\text{C}^{12}, 2\text{n}\alpha)$ , $(\text{C}^{12}, 3\text{n}\alpha)$ , E=60 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ coin. $^{103}\text{Pd}$ , $^{106,107}\text{Cd}$ ; deduced levels, J, $\pi$ , configurations, lifetimes using recoil distance Doppler shift and differential decay cutoff methods. JOUR PRVCA 76 064302
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,90,91,92,93,94,95,96,97,98,99, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,134,135, $^{135}\text{I}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=106 (*continued*)**

<sup>106</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103, <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113, <sup>114</sup> , <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>106</sup> Sn	2007MA92	ATOMIC MASSES <sup>99,101,103</sup> Ag, <sup>101,102,103,104</sup> Cd, <sup>102,103,104,105</sup> In, <sup>105,106</sup> Sn, <sup>107,109,111</sup> Sb, <sup>109,110,111,112</sup> Te, <sup>111,112,113</sup> I, <sup>113</sup> Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup> Sn, <sup>105</sup> Sb, <sup>108</sup> Te, <sup>109</sup> I, <sup>112</sup> Xe, <sup>113</sup> Cs; evaluated masses. JOUR ZAANE 34 341
<sup>106</sup> Te	2007PE32	NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. <sup>106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138</sup> Te, <sup>109,111,113,115,117,119,121,123,125,127,129,131</sup> I, <sup>110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144</sup> Xe, <sup>117,119,121,123,125,127,129</sup> Cs; systematics. JOUR PRVCA 76 054301

**A=107**

- <sup>107</sup>Ru      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>107</sup>Rh      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=107 (*continued*)**

<sup>107</sup> Pd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>107</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>107</sup> Cd	2007AS07	NUCLEAR REACTIONS <sup>98</sup> Mo( <sup>12</sup> C, 3n), ( <sup>12</sup> C, 4n), ( <sup>12</sup> C, 2n $\alpha$ ), ( <sup>12</sup> C, 3n $\alpha$ ), E=60 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ coin. <sup>103</sup> Pd, <sup>106,107</sup> Cd; deduced levels, J, $\pi$ , configurations, lifetimes using recoil distance Doppler shift and differential decay cutoff methods. JOUR PRVCA 76 064302

**A=107 (*continued*)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
$^{107}\text{In}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
$^{107}\text{Sb}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341

**A=108**

- <sup>108</sup>Ru      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>108</sup>Rh      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=108 (*continued*)**

<sup>108</sup> Pd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>108</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>108</sup> Cd	2007BA73	NUCLEAR REACTIONS <sup>114</sup> Cd(n, n'γ), E*=3.5 MeV; measured Eγ, Iγ, γ-yields, γγ-coin, angular distributions, half-lives; deduced levels, J, π, multipolarities, mixing ratios, configurations, B(E2), B(M1), B(E1). Comparisons with IBA model calculations. <sup>108,110,112,114,116,118</sup> Cd; systematics. JOUR PRVCA 76 054308

**A=108 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>108</sup> In	2007NA31

**A=108 (*continued*)**

<sup>108</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Rh, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>108</sup> Te	2007MA92	ATOMIC MASSES <sup>99,101,103</sup> Ag, <sup>101,102,103,104</sup> Cd, <sup>102,103,104,105</sup> In, <sup>105,106</sup> Sn, <sup>107,109,111</sup> Sb, <sup>109,110,111,112</sup> Te, <sup>111,112,113</sup> I, <sup>113</sup> Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup> Sn, <sup>105</sup> Sb, <sup>108</sup> Te, <sup>109</sup> I, <sup>112</sup> Xe, <sup>113</sup> Cs; evaluated masses. JOUR ZAANE 34 341
	2007PE32	NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. <sup>106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138</sup> Te, <sup>109,111,113,115,117,119,121,123,125,127,129,131</sup> I, <sup>110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144</sup> Xe, <sup>117,119,121,123,125,127,129</sup> Cs; systematics. JOUR PRVCA 76 054301

A=109

- |                   |          |   |
|-------------------|----------|---|
| <sup>109</sup> Ru | 2007NA31 | NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $\text{In}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76<br>064609 |
| <sup>109</sup> Rh | 2007NA31 | NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $\text{In}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 $\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76<br>064609 |

**A=109 (*continued*)**

<sup>109</sup> Pd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>109</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008ZI01		NUCLEAR REACTIONS <sup>109</sup> Ag, <sup>208</sup> Pb( <sup>44</sup> Ar, <sup>44</sup> Ar'), E=2.7, 3.7 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , (charged-particle) $\gamma$ -coin. Deduced coulomb excitation $\sigma(\theta)$ , B(E2). JOUR APOB 39 519

**A=109 (*continued*)**

<sup>109</sup> Cd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>109</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=109 (*continued*)**

<sup>109</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103, <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, <sup>126</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, <sup>128</sup> , <sup>129</sup> , <sup>130</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>109</sup> Sb	2007MA92	ATOMIC MASSES <sup>99,101,103</sup> Ag, <sup>101,102,103,104</sup> Cd, <sup>102,103,104,105</sup> In, <sup>105,106</sup> Sn, <sup>107,109,111</sup> Sb, <sup>109,110,111,112</sup> Te, <sup>111,112,113</sup> I, <sup>113</sup> Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup> Sn, <sup>105</sup> Sb, <sup>108</sup> Te, <sup>109</sup> I, <sup>112</sup> Xe, <sup>113</sup> Cs; evaluated masses. JOUR ZAANE 34 341
<sup>109</sup> Te	2007MA92	ATOMIC MASSES <sup>99,101,103</sup> Ag, <sup>101,102,103,104</sup> Cd, <sup>102,103,104,105</sup> In, <sup>105,106</sup> Sn, <sup>107,109,111</sup> Sb, <sup>109,110,111,112</sup> Te, <sup>111,112,113</sup> I, <sup>113</sup> Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup> Sn, <sup>105</sup> Sb, <sup>108</sup> Te, <sup>109</sup> I, <sup>112</sup> Xe, <sup>113</sup> Cs; evaluated masses. JOUR ZAANE 34 341
<sup>109</sup> I	2007MA92	ATOMIC MASSES <sup>99,101,103</sup> Ag, <sup>101,102,103,104</sup> Cd, <sup>102,103,104,105</sup> In, <sup>105,106</sup> Sn, <sup>107,109,111</sup> Sb, <sup>109,110,111,112</sup> Te, <sup>111,112,113</sup> I, <sup>113</sup> Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup> Sn, <sup>105</sup> Sb, <sup>108</sup> Te, <sup>109</sup> I, <sup>112</sup> Xe, <sup>113</sup> Cs; evaluated masses. JOUR ZAANE 34 341
	2007PE32	NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,Te, 109,111,113,115,117,119,121,123,125,127,129, <sup>131</sup> I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144,Xe, 117,119,121,123,125,127, <sup>129</sup> Cs; systematics. JOUR PRVCA 76 054301
<sup>109</sup> Xe	2007LI83	RADIOACTIVITY <sup>105</sup> Te, <sup>109</sup> Xe( $\alpha$ ) [from <sup>54</sup> Fe( <sup>58</sup> Ni, 3n), E=220-225 MeV]; measured E $\alpha$ , I $\alpha$ . <sup>105</sup> Te, <sup>109</sup> Xe; deduced Q $\alpha$ . JOUR ZSTNE 150 131

**A=110**

- $^{110}\text{Rh}$       2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
- $^{110}\text{Pd}$       2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=110 (*continued*)**

<sup>110</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>110</sup> Cd	2007BA73	NUCLEAR REACTIONS <sup>114</sup> Cd(n, n'γ), E*=3.5 MeV; measured Eγ, Iγ, γ-yields, γγ-coin, angular distributions, half-lives; deduced levels, J, π, multipolarities, mixing ratios, configurations, B(E2), B(M1), B(E1). Comparisons with IBA model calculations. <sup>108,110,112,114,116,118</sup> Cd; systematics. JOUR PRVCA 76 054308
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=110 (*continued*)**

- <sup>110</sup>In      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,<sup>106</sup>Tc, 95,96,<sup>97</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,<sup>112</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,<sup>116</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>110</sup>Sn      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,<sup>106</sup>Tc, 95,96,<sup>97</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,<sup>112</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,<sup>116</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=110 (*continued*)**

$^{110}\text{Sb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122, $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{110}\text{Te}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138, $^{138}\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131, $^{131}\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144, $^{144}\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{110}\text{Xe}$	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138, $^{138}\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131, $^{131}\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144, $^{144}\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301

**A=111**

- $^{111}\text{Rh}$       2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
- $^{111}\text{Pd}$       2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=111 (*continued*)**

<sup>111</sup> Ag	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> Y, 86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> ,97, <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> ,97, <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> ,97, <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95, <sup>96</sup> ,97, <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>111</sup> Cd	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> Y, 86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> ,97, <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> ,97, <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> ,97, <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95, <sup>96</sup> ,97, <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=111 (*continued*)**

$^{111}\text{In}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99,100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108,109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{111}\text{Sn}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99,100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108,109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{111}\text{Sb}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341

**A=111 (*continued*)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99,100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{111}\text{Te}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99,100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=111 (*continued*)**

- <sup>111</sup>I      2007MA92      ATOMIC MASSES <sup>99,101,103</sup>Ag, <sup>101,102,103,104</sup>Cd, <sup>102,103,104,105</sup>In, <sup>105,106</sup>Sn, <sup>107,109,111</sup>Sb, <sup>109,110,111,112</sup>Te, <sup>111,112,113</sup>I, <sup>113</sup>Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup>Sn, <sup>105</sup>Sb, <sup>108</sup>Te, <sup>109</sup>I, <sup>112</sup>Xe, <sup>113</sup>Cs; evaluated masses. JOUR ZAANE 34 341
- 2007PE32      NUCLEAR REACTIONS <sup>58</sup>Ni(<sup>54</sup>Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup>I; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array. <sup>106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138</sup>Te, <sup>109,111,113,115,117,119,121,123,125,127,129,131</sup>I, <sup>110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144</sup>Xe, <sup>117,119,121,123,125,127,129</sup>Cs; systematics. JOUR PRVCA 76 054301

**A=112**

- <sup>112</sup>Pd      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>79,80,81,82,83,84,85,86,87,88,89,90</sup>Rb, <sup>81,82,83,84,85,86,87,88,89,90,91,92,93</sup>Sr, <sup>84,85,86,87,88,89,90,91,92,93,94,95,96</sup>Y, <sup>86,87,88,89,90,91,92,93,94,95,96,97,98,99</sup>Zr, <sup>87,88,89,90,91,92,93,94,95,96,97,98,99,100</sup>Nb, <sup>90,91,92,93,94,95,96,97,98,99,100,101,102,103,104</sup>Mo, <sup>92,93,94,95,96,97,98,99,100,101,102,103,104,105,106</sup>Tc, <sup>95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup>Ru, <sup>97,98,99,100,101,102,103,104,105,106,107,108,109,110,111</sup>Rh, <sup>99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115</sup>Pd, <sup>101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130</sup>Ag, <sup>104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130</sup>Cd, <sup>105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130</sup>In, <sup>108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130</sup>Sn, <sup>110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132</sup>Sb, <sup>111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup>Te, <sup>113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup>I, <sup>116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup>Xe, <sup>122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup>Cs, <sup>127,128,129,130,131,132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=112 (*continued*)**

<sup>112</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> 98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>112</sup> Cd	2007BA73	NUCLEAR REACTIONS <sup>114</sup> Cd(n, n'γ), E*=3.5 MeV; measured Eγ, Iγ, γ-yields, γγ-coin, angular distributions, half-lives; deduced levels, J, π, multipolarities, mixing ratios, configurations, B(E2), B(M1), B(E1). Comparisons with IBA model calculations. 108,110,112,114,116,118Cd; systematics. JOUR PRVCA 76 054308
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> 98,99Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> 98,99Nb, 90,91,92,93,94,95,96, <sup>97</sup> 98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
	2008DA02	RADIOACTIVITY <sup>112</sup> Sn(2EC), (β <sup>+</sup> EC), <sup>124</sup> Sn(2β <sup>-</sup> ); measured Eγ, Iγ; deduced T <sub>1/2</sub> lower limits. JOUR NUPAB 799 167

**A=112 (*continued*)**

<sup>112</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, <sup>112</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>116</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>112</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, <sup>112</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>116</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008DA02		RADIOACTIVITY <sup>112</sup> Sn(2EC), ( $\beta^+$ EC), <sup>124</sup> Sn(2 $\beta^-$ ); measured E $\gamma$ , I $\gamma$ ; deduced T <sub>1/2</sub> lower limits. JOUR NUPAB 799 167

**A=112 (*continued*)**

- <sup>112</sup>Sb      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Mo, 92,93,94,95,96,<sup>97</sup>Tc, 95,96,<sup>97</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>112</sup>Te      2007MA92      ATOMIC MASSES <sup>99,101,103</sup>Ag, <sup>101,102,103,104</sup>Cd, <sup>102,103,104,105</sup>In, <sup>105,106</sup>Sn, <sup>107,109,111</sup>Sb, <sup>109,110,111,112</sup>Te, <sup>111,112,113</sup>I, <sup>113</sup>Xe; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. <sup>104</sup>Sn, <sup>105</sup>Sb, <sup>108</sup>Te, <sup>109</sup>I, <sup>112</sup>Xe, <sup>113</sup>Cs; evaluated masses. JOUR ZAANE 34 341
- 2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Mo, 92,93,94,95,96,<sup>97</sup>Tc, 95,96,<sup>97</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=112 (*continued*)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. $^{106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138}\text{Te}$ , $^{109,111,113,115,117,119,121,123,125,127,129,131}\text{I}$ , $^{110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144}\text{Xe}$ , $^{117,119,121,123,125,127,129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{112}\text{I}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
$^{112}\text{Xe}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. $^{106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138}\text{Te}$ , $^{109,111,113,115,117,119,121,123,125,127,129,131}\text{I}$ , $^{110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144}\text{Xe}$ , $^{117,119,121,123,125,127,129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301

**A=113**

$^{113}\text{Pd}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
-------------------	----------	--

**A=113 (*continued*)**

<sup>113</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>113</sup> Cd	2007BE61	RADIOACTIVITY <sup>113</sup> Cd( $\beta^-$ ); measured $\beta$ spectra, half-life. Low background experiment. JOUR PRVCA 76 064603
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> ,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>113</sup> In	2007BE61	RADIOACTIVITY <sup>113</sup> Cd( $\beta^-$ ); measured $\beta$ spectra, half-life. Low background experiment. JOUR PRVCA 76 064603

**A=113 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>113</sup> Sn	2007NA31

**A=113 (*continued*)**

$^{113}\text{Sb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{113}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{93}\text{Nb}({}^{20}\text{Ne}, \text{X})$ , E=145, 160 MeV; measured $\text{E}_\gamma$ , $\text{I}_\gamma$ , neutron-spectra, fusion cross sections. $^{113}\text{Sb}$ ; deduced giant dipole resonance parameters, J. JOUR PRVCA 77 024318
		NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=113 (continued)**

$^{113}\text{I}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , $E=195\text{ MeV}$ ; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, $J$ , $\pi$ , rotational bands; calculated configurations. JUROGAM array. $^{106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138}\text{Te}$ , $^{109,111,113,115,117,119,121,123,125,127,129,131}\text{I}$ , $^{110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144}\text{Xe}$ , $^{117,119,121,123,125,127,129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{113}\text{Xe}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341
$^{113}\text{Cs}$	2007MA92	ATOMIC MASSES $^{99,101,103}\text{Ag}$ , $^{101,102,103,104}\text{Cd}$ , $^{102,103,104,105}\text{In}$ , $^{105,106}\text{Sn}$ , $^{107,109,111}\text{Sb}$ , $^{109,110,111,112}\text{Te}$ , $^{111,112,113}\text{I}$ , $^{113}\text{Xe}$ ; measured and evaluated masses using the SHIPTRAP Penning trap mass spectrometer. $^{104}\text{Sn}$ , $^{105}\text{Sb}$ , $^{108}\text{Te}$ , $^{109}\text{I}$ , $^{112}\text{Xe}$ , $^{113}\text{Cs}$ ; evaluated masses. JOUR ZAANE 34 341

**A=114**

$^{114}\text{Pd}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{114}\text{Ag}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{114}\text{Cd}$	2007BA73	NUCLEAR REACTIONS $^{114}\text{Cd}(\text{n}, \text{n}'\gamma)$ , $E^*=3.5\text{ MeV}$ ; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -yields, $\gamma\gamma$ -coin, angular distributions, half-lives; deduced levels, $J$ , $\pi$ , multipolarities, mixing ratios, configurations, $B(E2)$ , $B(M1)$ , $B(E1)$ . Comparisons with IBA model calculations. $^{108,110,112,114,116,118}\text{Cd}$ ; systematics. JOUR PRVCA 76 054308

**A=114 (*continued*)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>116</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>123</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>126</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>131</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>133</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>135</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>137</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>138</sup> Cs, 127,128,129,130,131,132 <sup>139</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>114</sup> In	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>116</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>123</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>126</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>131</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>133</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>135</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>137</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>138</sup> Cs, 127,128,129,130,131,132 <sup>139</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=114 (*continued*)**

<sup>114</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>114</sup> Sb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=114 (continued)**

$^{114}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>116</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136, <sup>138</sup> Te, 109,111,113,115,117,119,121,123,125,127,129, <sup>131</sup> I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125, <sup>127</sup> 129Cs; systematics. JOUR PRVCA 76 054301
$^{114}\text{I}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>116</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=114 (*continued*)**

<sup>114</sup>Xe      2007PE32      NUCLEAR REACTIONS <sup>58</sup>Ni(<sup>54</sup>Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup>I; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array.  
106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te,  
109,111,113,115,117,119,121,123,125,127,129,131I,  
110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe,  
117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=115**

<sup>115</sup>Pd      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb,  
81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y,  
86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr,  
87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb,  
90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo,  
92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc,  
95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru,  
97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh,  
99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd,  
101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag,  
104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd,  
105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In,  
108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn,  
110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb,  
111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te,  
113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I,  
116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe,  
122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs,  
127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76  
064609

**A=115 (*continued*)**

$^{115}\text{Ag}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{115}\text{Cd}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=115 (*continued*)**

$^{115}\text{In}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{115}\text{Sn}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=115 (*continued*)**

$^{115}\text{Sb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
2008FA03		NUCLEAR REACTIONS $^{46}\text{Ti}$ , $^{64}\text{Zn}$ , $^{114,116}\text{Sn}(\text{p}, \gamma)$ , E(cm)=13.7 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ following residual decay, $\sigma$ ; deduced astrophysical S-factors, reaction rates. Activation technique. JOUR NUPAB 802 26
$^{115}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=115 (*continued*)**

- <sup>115</sup>I      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>,<sup>98</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>Mo, 92,93,94,95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>Tc, 95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>Ru, 97,98,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>,<sup>110</sup>,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- 2007PE32      NUCLEAR REACTIONS <sup>58</sup>Ni(<sup>54</sup>Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup>I; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=116**

- $^{116}\text{Ag}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- $^{116}\text{Cd}$  2007BA73 NUCLEAR REACTIONS  $^{114}\text{Cd}(\text{n}, \text{n}'\gamma)$ , E\*=3.5 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma$ -yields,  $\gamma\gamma$ -coin, angular distributions, half-lives; deduced levels, J,  $\pi$ , multipolarities, mixing ratios, configurations, B(E2), B(M1), B(E1). Comparisons with IBA model calculations. 108,110,112,114,116,118Cd; systematics. JOUR PRVCA 76 054308
- 2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=116 (*continued*)**

<sup>116</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, <sup>132</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, <sup>133</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, <sup>135</sup> I, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, <sup>136</sup> Sn, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Sb, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Te, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>116</sup> Sn	2007CH76	NUCLEAR REACTIONS <sup>116</sup> Sn( <sup>6</sup> Li, <sup>6</sup> Li'), E=240 MeV; measured particle spectra, angular distributions, cross sections; deduced B(E2), B(E3). Comparison with <sup>90</sup> Zr, <sup>116</sup> Sn; deduced J, π. DWBA calculations. JOUR PRVCA 76 054606
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, <sup>132</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, <sup>133</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, <sup>135</sup> I, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, <sup>136</sup> Sn, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Sb, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Te, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135, <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=116 (*continued*)**

	2008TE03	NUCLEAR REACTIONS $^{116,118,120,122,124}\text{Sn}$ (p, p), E=295 MeV; measured $\sigma(\theta)$ , analyzing powers, nucleon density distributions, rms radii. $^{58}\text{Ni}$ ; calculated proton, neutron density distributions. JOUR PRVCA 77 024317
$^{116}\text{Sb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135,136}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{116}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135,136}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=116 (*continued*)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301
$^{116}\text{I}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
$^{116}\text{Xe}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=116 (*continued*)**

2007PE32 NUCLEAR REACTIONS  $^{58}\text{Ni}$ ( $^{54}\text{Fe}$ , 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities.  $^{109}\text{I}$ ; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array.  
 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te,  
 109,111,113,115,117,119,121,123,125,127,129,131I,  
 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe,  
 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=117**

$^{117}\text{Ru}$	2007T023	RADIOACTIVITY $^{117}\text{Ru}$ , $^{120}\text{Rh}$ , $^{121}\text{Pd}$ , $^{123,124,125}\text{Ag}$ , $^{125,126,127}\text{Cd}(\text{IT})$ ; measured E $\gamma$ , I $\gamma$ from isomer decays. JOUR ZSTNE 150 183
$^{117}\text{Pd}$	2007RI17	RADIOACTIVITY $^{117m}\text{Pd}$ , $^{118m}\text{Ag}$ , $^{120m}\text{Ag}$ , $^{118m}\text{In}(\text{IT})$ [from U(p, F), E not given]; measured conversion electron spectra with the JYFLTRAP double Penning trap; deduced transition energies. Comparison with other data. JOUR ZAANE 34 113
$^{117}\text{Ag}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=117 (*continued*)**

<sup>117</sup> Cd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>117</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=117 (*continued*)**

$^{117}\text{Sn}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{117}\text{Sb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
	2008FA03	NUCLEAR REACTIONS $^{46}\text{Ti}$ , $^{64}\text{Zn}$ , $^{114,116}\text{Sn}(\text{p}, \gamma)$ , $E(\text{cm})=13.7\text{ MeV}$ ; measured $E\gamma$ , $I\gamma$ following residual decay, $\sigma$ ; deduced astrophysical S-factors, reaction rates. Activation technique. JOUR NUPAB 802 26

**A=117 (*continued*)**

$^{117}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{117}\text{I}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107, $^{108}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Te}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , $E=195\text{ MeV}$ ; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, $J$ , $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138, $^{138}\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129, $^{131}\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144, $^{144}\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301

**A=117 (*continued*)**

- <sup>117</sup>Xe      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>,<sup>98</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>Mo, 92,93,94,95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>Tc, 95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>Ru, 97,98,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>,<sup>110</sup>,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>117</sup>Cs      2007PE32      NUCLEAR REACTIONS <sup>58</sup>Ni(<sup>54</sup>Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup>I; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=118**

- $^{118}\text{Ag}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122, $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
- 2007RI17 RADIOACTIVITY  $^{117m}\text{Pd}$ ,  $^{118m}\text{Ag}$ ,  $^{120m}\text{Ag}$ ,  $^{118m}\text{In}(\text{IT})$  [from U(p, F), E not given]; measured conversion electron spectra with the JYFLTRAP double Penning trap; deduced transition energies. Comparison with other data. JOUR ZAANE 34 113
- $^{118}\text{Cd}$  2007BA73 NUCLEAR REACTIONS  $^{114}\text{Cd}(\text{n}, \text{n}'\gamma)$ , E\*=3.5 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma$ -yields,  $\gamma\gamma$ -coin, angular distributions, half-lives; deduced levels, J,  $\pi$ , multipolarities, mixing ratios, configurations, B(E2), B(M1), B(E1). Comparisons with IBA model calculations.  $^{108,110,112,114,116,118}\text{Cd}$ ; systematics. JOUR PRVCA 76 054308

**A=118 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{118}\text{In}$	2007NA31
2007RI17	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
	RADIOACTIVITY $^{117m}\text{Pd}$ , $^{118m}\text{Ag}$ , $^{120m}\text{Ag}$ , $^{118m}\text{In}(\text{IT})$ [from $\text{U}(\text{p}, \text{F})$ , E not given]; measured conversion electron spectra with the JYFLTRAP double Penning trap; deduced transition energies. Comparison with other data. JOUR ZAANE 34 113

**A=118 (*continued*)**

<sup>118</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> ,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> ,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> ,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> ,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2008TE03		NUCLEAR REACTIONS <sup>116,118,120,122,124</sup> Sn(p, p), E=295 MeV; measured $\sigma(\theta)$ , analyzing powers, nucleon density distributions, rms radii. <sup>58</sup> Ni; calculated proton, neutron density distributions. JOUR PRVCA 77 024317
<sup>118</sup> Sb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> ,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> ,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> ,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> ,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=118 (*continued*)**

<sup>118</sup> Te	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301
<sup>118</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=118 (*continued*)**

- <sup>118</sup>Xe      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Nb, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Tc, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- 2007PE32      NUCLEAR REACTIONS <sup>58</sup>Ni(<sup>54</sup>Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup>I; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=119**

- <sup>119</sup>Ag      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>119</sup>Cd      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=119 (*continued*)**

$^{119}\text{In}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1$ GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{119}\text{Sn}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1$ GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{119}\text{Sb}$	2007GU30	NUCLEAR REACTIONS $^{121}\text{Sb}(\text{p}, \text{t})$ , $E=21$ MeV; measured triton spectra, $\sigma(\theta)$ . $^{119}\text{Sb}$ ; deduced level energies, $J, \pi$ . DWBA analysis. JOUR JPGPE 34 2665

**A=119 (*continued*)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>116</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sb, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Te, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>119</sup> Te	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>116</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sb, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Te, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=119 (*continued*)**

- <sup>119</sup>I      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Nb, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Tc, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,<sup>108</sup>Ru, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Rh, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Pd, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>Xe, 122,123,124,125,126,127,128,129,<sup>130</sup>Cs, 127,128,<sup>130</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- 2007PE32      NUCLEAR REACTIONS  $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities.  $^{109}\text{I}$ ; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,<sup>138</sup>Te, 109,111,113,115,117,119,121,123,125,127,129,<sup>131</sup>I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144<sup>144</sup>Xe, 117,119,121,123,125,127,<sup>129</sup>Cs; systematics. JOUR PRVCA 76 054301
- <sup>119</sup>Xe      2007M037      NUCLEAR REACTIONS  $^{116}\text{Cd}(^{13}\text{C}, 4\text{n})$ , E=62 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ .  $^{125}\text{Xe}$ ; deduced levels, J,  $\pi$ , configurations. 119,121,123,<sup>125</sup>Xe; systematics of yrast and yrare levels. JOUR PRVCA 76 067301

**A=119 (*continued*)**

	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1$ GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{119}\text{Cs}$	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , $E=195$ MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, $J$ , $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138, $^{138}\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131, $^{131}\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144, $^{144}\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301

**A=120**

$^{120}\text{Rh}$	2007T023	RADIOACTIVITY $^{117}\text{Ru}$ , $^{120}\text{Rh}$ , $^{121}\text{Pd}$ , $^{123,124,125}\text{Ag}$ , $^{125,126,127}\text{Cd}(\text{IT})$ ; measured $E\gamma$ , $I\gamma$ from isomer decays. JOUR ZSTNE 150 183
-------------------	----------	--

**A=120 (*continued*)**

<sup>120</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007RI17		RADIOACTIVITY <sup>117m</sup> Pd, <sup>118m</sup> Ag, <sup>120m</sup> Ag, <sup>118m</sup> In(IT) [from U(p, F), E not given]; measured conversion electron spectra with the JYFLTRAP double Penning trap; deduced transition energies. Comparison with other data. JOUR ZAANE 34 113
<sup>120</sup> Cd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=120 (*continued*)**

<sup>120</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>120</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008ST04		NUCLEAR REACTIONS <sup>104</sup> Pd( <sup>67</sup> Cu, <sup>67</sup> Cu'), ( <sup>69</sup> Cu, <sup>69</sup> Cu'), ( <sup>71</sup> Cu, <sup>71</sup> Cu'), E=2.99 MeV / nucleon; <sup>120</sup> Sn( <sup>71</sup> Cu, <sup>71</sup> Cu'), ( <sup>73</sup> Cu, <sup>73</sup> Cu'), E=2.99 MeV / nucleon; measured E $\gamma$ , I $\gamma$ following coulomb excitation. <sup>67,69,71,73</sup> Cu; deduced level energies, B(E2). JOUR PRLTA 100 112502

**A=120 (*continued*)**

	2008TE03	NUCLEAR REACTIONS $^{116,118,120,122,124}\text{Sn}$ (p, p), E=295 MeV; measured $\sigma(\theta)$ , analyzing powers, nucleon density distributions, rms radii. $^{58}\text{Ni}$ ; calculated proton, neutron density distributions. JOUR PRVCA 77 024317
$^{120}\text{Sb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135,136}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{120}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135,136}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=120 (*continued*)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{120}\text{I}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{97}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{137}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{120}\text{Xe}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{97}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{137}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=120 (*continued*)**

2007PE32 NUCLEAR REACTIONS  $^{58}\text{Ni}$ ( $^{54}\text{Fe}$ , 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities.  $^{109}\text{I}$ ; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array.  
106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te,  
109,111,113,115,117,119,121,123,125,127,129,131I,  
110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe,  
117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=121**

$^{121}\text{Pd}$  2007T023 RADIOACTIVITY  $^{117}\text{Ru}$ ,  $^{120}\text{Rh}$ ,  $^{121}\text{Pd}$ ,  $^{123,124,125}\text{Ag}$ ,  
 $^{125,126,127}\text{Cd}$ (IT); measured E $\gamma$ , I $\gamma$  from isomer decays. JOUR ZSTNE  
150 183

$^{121}\text{Ag}$  2007NA31 NUCLEAR REACTIONS  $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured  
isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb,  
81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y,  
86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr,  
87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb,  
90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo,  
92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc,  
95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru,  
97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh,  
99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd,  
101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag,  
104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd,  
105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In,  
108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn,  
110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb,  
111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te,  
113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I,  
116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe,  
122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs,  
127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76  
064609

**A=121 (*continued*)**

<sup>121</sup> Cd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>121</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=121 (*continued*)**

<sup>121</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, <sup>112</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>116</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>121</sup> Sb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, <sup>112</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, <sup>116</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008K003		RADIOACTIVITY <sup>121</sup> Sb(IT); measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>121</sup> Sb; deduced levels, J, $\pi$ , new isomer, half-life. JOUR APOBB 39 489

**A=121 (*continued*)**

- <sup>121</sup>Te      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,<sup>97</sup>98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,<sup>97</sup>98,99,100,101,102,103,104,105,106,107,<sup>108</sup>,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- 2008EA01      NUCLEAR REACTIONS <sup>120,122,124,126,128,130</sup>Te(n,  $\gamma$ ), E not given; measured E $\gamma$ , I $\gamma$ , cross sections, resonance integral. JOUR PRVCA 77 024303
- 2008EA01      RADIOACTIVITY <sup>121m</sup>Te, <sup>121</sup>Te, <sup>127m</sup>Te, <sup>131m</sup>Te; measured half-lives. JOUR PRVCA 77 024303
- <sup>121</sup>I      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>98,99,100Nb, 90,91,92,93,94,95,96,<sup>97</sup>98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,<sup>97</sup>98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,<sup>97</sup>98,99,100,101,102,103,104,105,106,107,<sup>108</sup>,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=121 (*continued*)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{121}\text{Xe}$	2007M037	NUCLEAR REACTIONS $^{116}\text{Cd}(^{13}\text{C}, 4\text{n})$ , E=62 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ . $^{125}\text{Xe}$ ; deduced levels, J, $\pi$ , configurations. $^{119,121,123,125}\text{Xe}$ ; systematics of yrast and yrare levels. JOUR PRVCA 76 067301
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
$^{121}\text{Cs}$	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, $^{117,119,121,123,125,127,129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301

**A=122**

<sup>122</sup> Ag	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> ,101,102,103, <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> ,101,102,103, <sup>104</sup> ,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> ,101,102,103, <sup>104</sup> ,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103, <sup>104</sup> ,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> Rh, 99,100,101,102,103, <sup>104</sup> ,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113, <sup>114</sup> , <sup>115</sup> Pd, 101,102,103, <sup>104</sup> ,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113, <sup>114</sup> , <sup>115</sup> ,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> In, 104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113, <sup>114</sup> , <sup>115</sup> ,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 110,111,112,113, <sup>114</sup> , <sup>115</sup> ,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132Sb, 111,112,113, <sup>114</sup> , <sup>115</sup> ,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133, <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133,134, <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133,134, <sup>135</sup> Xe, 122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133,134, <sup>135</sup> , <sup>136</sup> Cs, 127,128,129, <sup>130</sup> ,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2008SM01		RADIOACTIVITY <sup>122</sup> Ag( $\beta^-$ ) [from <sup>238</sup> U(p, F), E=50 MeV]; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, lifetimes. <sup>122</sup> Cd; deduced levels, B(M1), B(E1), B(E2), half-lives using Advanced Time-delayed $\beta\gamma\gamma(t)$ method. Comparison with <sup>124</sup> Sn, <sup>126</sup> Te. JOUR PRVCA 77 014309
<sup>122</sup> Cd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> ,101,102,103, <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> ,101,102,103, <sup>104</sup> ,105, <sup>106</sup> Tc, 95,96, <sup>97</sup> ,98, <sup>99</sup> , <sup>100</sup> ,101,102,103, <sup>104</sup> ,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103, <sup>104</sup> ,105,106,107, <sup>108</sup> , <sup>109</sup> ,110, <sup>111</sup> Rh, 99,100,101,102,103, <sup>104</sup> ,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113, <sup>114</sup> , <sup>115</sup> Pd, 101,102,103, <sup>104</sup> ,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113, <sup>114</sup> , <sup>115</sup> ,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> In, 104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113, <sup>114</sup> , <sup>115</sup> ,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 110,111,112,113, <sup>114</sup> , <sup>115</sup> ,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132Sb, 111,112,113, <sup>114</sup> , <sup>115</sup> ,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133, <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133,134, <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133,134, <sup>135</sup> Xe, 122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133,134, <sup>135</sup> , <sup>136</sup> Cs, 127,128,129, <sup>130</sup> ,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=122 (continued)**

2008SM01	RADIOACTIVITY $^{122}\text{Ag}(\beta^-)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=50 MeV]; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, lifetimes. $^{122}\text{Cd}$ ; deduced levels, B(M1), B(E1), B(E2), half-lives using Advanced Time-delayed $\beta\gamma\gamma(t)$ method. Comparison with $^{124}\text{Sn}$ , $^{126}\text{Te}$ . JOUR PRVCA 77 014309
$^{122}\text{In}$	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93,Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,Zr, 87,88,89,90,91,92,93,94,95,96,97,98,Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,Te, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132,Ba; measured cross sections. JOUR PRVCA 76 064609
$^{122}\text{Sn}$	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93,Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,Zr, 87,88,89,90,91,92,93,94,95,96,97,98,Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,Ru, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,Te, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132,Ba; measured cross sections. JOUR PRVCA 76 064609

**A=122 (*continued*)**

	2008TE03	NUCLEAR REACTIONS $^{116,118,120,122,124}\text{Sn}$ (p, p), E=295 MeV; measured $\sigma(\theta)$ , analyzing powers, nucleon density distributions, rms radii. $^{58}\text{Ni}$ ; calculated proton, neutron density distributions. JOUR PRVCA 77 024317
$^{122}\text{Sb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135,136}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{122}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}$ (p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115}\text{Pd}$ , $^{101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135,136}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=122 (*continued*)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{122}\text{I}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{97}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122, $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{122}\text{Xe}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{97}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122, $^{122}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=122 (*continued*)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{122}\text{Cs}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95, $^{96}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,105, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{116}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{126}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{127}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{128}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=123**

$^{123}\text{Ag}$	2007T023	RADIOACTIVITY $^{117}\text{Ru}$ , $^{120}\text{Rh}$ , $^{121}\text{Pd}$ , $^{123,124,125}\text{Ag}$ , $^{125,126,127}\text{Cd}(\text{IT})$ ; measured $\text{E}\gamma$ , $\text{I}\gamma$ from isomer decays. JOUR ZSTNE 150 183
-------------------	----------	--

**A=123 (continued)**

<sup>123</sup> Cd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>123</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> <sup>Y</sup> , 86,87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> Nb, 90,91,92, <sup>93</sup> , <sup>94</sup> , <sup>95</sup> , <sup>96</sup> , <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=123 (continued)**

<sup>123</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126, <sup>126</sup> , <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131, <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133, <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133, <sup>134</sup> , <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133, <sup>134</sup> , <sup>135</sup> Xe, 122,123,124,125,126,127, <sup>128</sup> , <sup>129</sup> , <sup>130</sup> ,131,132,133, <sup>134</sup> , <sup>135</sup> , <sup>136</sup> Cs, 127,128, <sup>129</sup> , <sup>130</sup> ,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>123</sup> Sb	2007JU06	NUCLEAR REACTIONS <sup>122</sup> Sn( <sup>7</sup> Li, $\alpha$ 2n $\gamma$ ), E=35 MeV; <sup>124</sup> Sn( <sup>7</sup> Li, $\alpha$ 2n $\gamma$ ), E=37 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, internal conversion coefficients, conversion electron spectra; deduced multipolarities, B(E1), B(E2), B(E3), B(M2), B(M4). <sup>123</sup> , <sup>125</sup> Sb; measured half-lives; deduced levels, J, $\pi$ . JOUR PRVCA 76 054306
	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107, <sup>108</sup> , <sup>109</sup> ,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126, <sup>126</sup> , <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131, <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133, <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133, <sup>134</sup> , <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> ,131,132,133, <sup>134</sup> , <sup>135</sup> Xe, 122,123,124,125,126,127, <sup>128</sup> , <sup>129</sup> , <sup>130</sup> ,131,132,133, <sup>134</sup> , <sup>135</sup> , <sup>136</sup> Cs, 127,128, <sup>129</sup> , <sup>130</sup> ,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=123 (continued)**

- <sup>123</sup>Te      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Zr, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,<sup>136</sup>Cs, 127,128,129,130,131,<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- 2008EA01      NUCLEAR REACTIONS <sup>120,122,124,126,128,130</sup>Te(n,  $\gamma$ ), E not given; measured E $\gamma$ , I $\gamma$ , cross sections, resonance integral. JOUR PRVCA 77 024303
- <sup>123</sup>I      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Zr, 87,88,89,90,91,92,93,94,95,96,97,98,<sup>99</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,<sup>136</sup>Cs, 127,128,129,130,131,<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=123 (*continued*)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{123}\text{Xe}$	2007M037	NUCLEAR REACTIONS $^{116}\text{Cd}(^{13}\text{C}, 4\text{n})$ , E=62 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ . $^{125}\text{Xe}$ ; deduced levels, J, $\pi$ , configurations. $^{119,121,123,125}\text{Xe}$ ; systematics of yrast and yrare levels. JOUR PRVCA 76 067301
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=123 (continued)**

- <sup>123</sup>Cs      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>,<sup>98</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>Mo, 92,93,94,95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>Tc, 95,96,<sup>97</sup>,<sup>98</sup>,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>Ru, 97,98,<sup>99</sup>,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>,<sup>110</sup>,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- 2007PE32      NUCLEAR REACTIONS <sup>58</sup>Ni(<sup>54</sup>Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup>I; deduced levels, J,  $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=124**

- <sup>124</sup>Ag      2007T023      RADIOACTIVITY <sup>117</sup>Ru, <sup>120</sup>Rh, <sup>121</sup>Pd, <sup>123,124,125</sup>Ag, <sup>125,126,127</sup>Cd(IT); measured E $\gamma$ , I $\gamma$  from isomer decays. JOUR ZSTNE 150 183

**A=124 (*continued*)**

<sup>124</sup> Cd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>124</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=124 (*continued*)**

<sup>124</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cd, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008DA02		RADIOACTIVITY <sup>112</sup> Sn(2EC), ( $\beta^+$ EC), <sup>124</sup> Sn(2 $\beta^-$ ); measured E $\gamma$ , I $\gamma$ ; deduced T <sub>1/2</sub> lower limits. JOUR NUPAB 799 167
2008TE03		NUCLEAR REACTIONS <sup>116,118,120,122,124</sup> Sn(p, p), E=295 MeV; measured $\sigma(\theta)$ , analyzing powers, nucleon density distributions, rms radii. <sup>58</sup> Ni; calculated proton, neutron density distributions. JOUR PRVCA 77 024317
<sup>124</sup> Sb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=124 (*continued*)**

<sup>124</sup> Te	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,97, <sup>98</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Tc, 90,91,92,93,94,95,96,97,98,99,100,101,102,103, <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105, <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113, <sup>114</sup> , <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> In, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136, <sup>138</sup> Te, 109,111,113,115,117,119,121,123,125,127,129, <sup>131</sup> I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142, <sup>144</sup> Xe, 117,119,121,123,125, <sup>127</sup> , <sup>129</sup> Cs; systematics. JOUR PRVCA 76 054301
2008DA02		RADIOACTIVITY $^{112}\text{Sn}(2\text{EC})$ , ( $\beta^+\text{EC}$ ), $^{124}\text{Sn}(2\beta^-)$ ; measured E $\gamma$ , I $\gamma$ ; deduced T <sub>1/2</sub> lower limits. JOUR NUPAB 799 167

**A=124 (continued)**

<sup>124</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>124</sup> Xe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 <sup>138</sup> Te, 109,111,113,115,117,119,121,123,125,127,129,131 <sup>131</sup> I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 <sup>144</sup> Xe, 117,119,121,123,125,127,129 <sup>129</sup> Cs; systematics. JOUR PRVCA 76 054301

**A=124 (*continued*)**

<sup>124</sup> Cs	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
-------------------	----------	--

**A=125**

<sup>125</sup> Ag	2007T023	RADIOACTIVITY <sup>117</sup> Ru, <sup>120</sup> Rh, <sup>121</sup> Pd, <sup>123,124,125</sup> Ag, <sup>125,126,127</sup> Cd(IT); measured E $\gamma$ , I $\gamma$ from isomer decays. JOUR ZSTNE 150 183
<sup>125</sup> Cd	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=125 (*continued*)**

2007T023	RADIOACTIVITY $^{117}\text{Ru}$ , $^{120}\text{Rh}$ , $^{121}\text{Pd}$ , $^{123,124,125}\text{Ag}$ , $^{125,126,127}\text{Cd}(\text{IT})$ ; measured $E\gamma$ , $I\gamma$ from isomer decays. JOUR ZSTNE 150 183
$^{125}\text{In}$	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV} / \text{nucleon}$ ; measured isotopic cross sections, kinetic energies. 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90 $\text{Rb}$ , 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93 $\text{Sr}$ , 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99 $\text{Y}$ , 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 $\text{Nb}$ , 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104 $\text{Mo}$ , 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106 $\text{Tc}$ , 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109 $\text{Ru}$ , 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111 $\text{Rh}$ , 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115 $\text{Pd}$ , 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122 $\text{Ag}$ , 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125 $\text{Cd}$ , 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127 $\text{In}$ , 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130 $\text{Sn}$ , 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132 $\text{Sb}$ , 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134 $\text{Te}$ , 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135 $\text{I}$ , 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135 $\text{Xe}$ , 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135 $\text{Cs}$ , 127, 128, 129, 130, 131, 132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{125}\text{Sn}$	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV} / \text{nucleon}$ ; measured isotopic cross sections, kinetic energies. 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90 $\text{Rb}$ , 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93 $\text{Sr}$ , 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 $\text{Nb}$ , 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104 $\text{Mo}$ , 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106 $\text{Tc}$ , 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109 $\text{Ru}$ , 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111 $\text{Rh}$ , 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115 $\text{Pd}$ , 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122 $\text{Ag}$ , 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125 $\text{Cd}$ , 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127 $\text{In}$ , 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130 $\text{Sn}$ , 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132 $\text{Sb}$ , 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134 $\text{Te}$ , 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135 $\text{I}$ , 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135 $\text{Xe}$ , 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135 $\text{Cs}$ , 127, 128, 129, 130, 131, 132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=125 (continued)**

$^{125}\text{Sb}$	2007JU06	NUCLEAR REACTIONS $^{122}\text{Sn}(^7\text{Li}, \alpha 2n\gamma)$ , E=35 MeV; $^{124}\text{Sn}(^7\text{Li}, \alpha 2n\gamma)$ , E=37 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, internal conversion coefficients, conversion electron spectra; deduced multipolarities, B(E1), B(E2), B(E3), B(M2), B(M4). $^{123,125}\text{Sb}$ ; measured half-lives; deduced levels, J, $\pi$ . JOUR PRVCA 76 054306
	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{97}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{134}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{137}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{138}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{139}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{125}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{97}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{134}\text{Ag}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{137}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{138}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{139}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

### **A=125 (*continued*)**

- |                   |          |  |
|-------------------|----------|--|
|                   | 2008EA01 | NUCLEAR REACTIONS $^{120,122,124,126,128,130}\text{Te}(n, \gamma)$ , E not given; measured $E\gamma$ , $I\gamma$ , cross sections, resonance integral. JOUR PRVCA 77 024303  |
| $^{125}\text{I}$  | 2007NA31 | NUCLEAR REACTIONS $^{136}\text{Xe}(p, X)$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90}\text{Rb}$ , $^{81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609 |
|                   | 2007PE32 | NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2np)$ , E=195 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. $^{106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138}\text{Te}$ , $^{109,111,113,115,117,119,121,123,125,127,129,131}\text{I}$ , $^{110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144}\text{Xe}$ , $^{117,119,121,123,125,127,129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301   |
| $^{125}\text{Xe}$ | 2007M037 | NUCLEAR REACTIONS $^{116}\text{Cd}(^{13}\text{C}, 4n)$ , E=62 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ . $^{125}\text{Xe}$ ; deduced levels, J, $\pi$ , configurations. $^{119,121,123,125}\text{Xe}$ ; systematics of yrast and yrare levels. JOUR PRVCA 76 067301  |

**A=125 (continued)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{131}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{125}\text{Cs}$	2007NA31
2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, $J$ , $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134, $^{136}\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129, $^{131}\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142, $^{144}\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301

**A=126**

<sup>126</sup> Cd	2007T023	RADIOACTIVITY <sup>117</sup> Ru, <sup>120</sup> Rh, <sup>121</sup> Pd, <sup>123,124,125</sup> Ag, <sup>125,126,127</sup> Cd(IT); measured E $\gamma$ , I $\gamma$ from isomer decays. JOUR ZSTNE 150 183
<sup>126</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>79,80,81,82,83,84,85,86,87,88,89,90</sup> Rb, <sup>81,82,83,84,85,86,87,88,89,90,91,92,93</sup> Sr, <sup>84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99</sup> Y, <sup>86,87,88,89,90,91,92,93,94,95,96,97,98,99</sup> Zr, <sup>87,88,89,90,91,92,93,94,95,96,97,98,99,100</sup> Nb, <sup>90,91,92,93,94,95,96,97,98,99,100,101,102,103,104</sup> Mo, <sup>92,93,94,95,96,97,98,99,100,101,102,103,104,105,106</sup> Tc, <sup>95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup> Ru, <sup>97,98,99,100,101,102,103,104,105,106,107,108,109,110,111</sup> Rh, <sup>99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115</sup> Pd, <sup>101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122</sup> Ag, <sup>104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125</sup> Cd, <sup>105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127</sup> In, <sup>108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130</sup> Sn, <sup>110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132</sup> Sb, <sup>111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134</sup> Te, <sup>113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> I, <sup>116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Xe, <sup>122,123,124,125,126,127,128,129,130,131,132,133,134,135,136</sup> Cs, <sup>127,128,129,130,131,132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>126</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. <sup>79,80,81,82,83,84,85,86,87,88,89,90</sup> Rb, <sup>81,82,83,84,85,86,87,88,89,90,91,92,93</sup> Sr, <sup>84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99</sup> Y, <sup>86,87,88,89,90,91,92,93,94,95,96,97,98,99,100</sup> Nb, <sup>90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106</sup> Mo, <sup>92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup> Ru, <sup>97,98,99,100,101,102,103,104,105,106,107,108,109,110,111</sup> Rh, <sup>99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115</sup> Pd, <sup>101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123</sup> Ag, <sup>104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125</sup> Cd, <sup>105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127</sup> In, <sup>108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130</sup> Sn, <sup>110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132</sup> Sb, <sup>111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134</sup> Te, <sup>113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> I, <sup>116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Xe, <sup>122,123,124,125,126,127,128,129,130,131,132,133,134,135,136</sup> Cs, <sup>127,128,129,130,131,132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=126 (continued)**

<sup>126</sup> Sb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98,99, <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>126</sup> Te	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98,99, <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=126 (continued)**

<sup>126</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>126</sup> Xe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> <sup>100</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> ,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=126 (*continued*)**

<sup>126</sup> Cs	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126, <sup>127</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
-------------------	----------	--

**A=127**

<sup>127</sup> Cd	2007T023	RADIOACTIVITY <sup>117</sup> Ru, <sup>120</sup> Rh, <sup>121</sup> Pd, <sup>123,124,125</sup> Ag, <sup>125,126,127</sup> Cd(IT); measured E $\gamma$ , I $\gamma$ from isomer decays. JOUR ZSTNE 150 183
<sup>127</sup> In	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126, <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=127 (*continued*)**

<sup>127</sup> Sn	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs,
		127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2008DW01		ATOMIC MASSES <sup>127,131,132,133,134</sup> Sn; measured masses using the ISOLTRAP mass spectrometer. Discussed implications on the N=82 neutron-shell gap. JOUR PRLTA 100 072501
<sup>127</sup> Sb	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs,
		127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=127 (*continued*)**

- <sup>127</sup>Te      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,<sup>97</sup>98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,<sup>97</sup>98,99,100,101,102,103,104,105,106,107,<sup>108</sup>,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
- 2008EA01      NUCLEAR REACTIONS <sup>120,122,124,126,128,130</sup>Te(n,  $\gamma$ ), E not given; measured E $\gamma$ , I $\gamma$ , cross sections, resonance integral. JOUR PRVCA 77 024303
- 2008EA01      RADIOACTIVITY <sup>121m</sup>Te, <sup>121</sup>Te, <sup>127m</sup>Te, <sup>131m</sup>Te; measured half-lives. JOUR PRVCA 77 024303
- <sup>127</sup>I      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>98,99,100Nb, 90,91,92,93,94,95,96,<sup>97</sup>98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,<sup>97</sup>98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,<sup>97</sup>98,99,100,101,102,103,104,105,106,107,<sup>108</sup>,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=127 (*continued*)**

2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301
$^{127}\text{Xe}$	2007NA31  NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
$^{127}\text{Cs}$	2007NA31  NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=127 (*continued*)**

2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301
$^{127}\text{Ba}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Zr, 87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=128**

- <sup>128</sup>Sn      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609
- <sup>128</sup>Sb      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104<sup>104</sup>Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106<sup>106</sup>Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109<sup>109</sup>Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111<sup>111</sup>Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115<sup>115</sup>Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122<sup>122</sup>Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125<sup>125</sup>Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127<sup>127</sup>In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130<sup>130</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132<sup>132</sup>Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134<sup>134</sup>Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135<sup>135</sup>Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136<sup>136</sup>Cs, 127,128,129,130,131,132<sup>132</sup>Ba; measured cross sections. JOUR PRVCA 76 064609

**A=128 (continued)**

<sup>128</sup> Te	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99, <sup>100</sup> Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129,131Cs; systematics. JOUR PRVCA 76 054301
<sup>128</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99, <sup>100</sup> Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=128 (*continued*)**

<sup>128</sup> Xe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301
<sup>128</sup> Cs	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> 100,101,102,103,104,105,106,107, <sup>108</sup> , <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=128 (*continued*)**

$^{128}\text{Ba}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1$ GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
-------------------	----------	---

**A=129**

$^{129}\text{Sn}$	2007KL06	NUCLEAR REACTIONS $\text{Be}(^{238}\text{U}, \text{X})^{129}\text{Sn}$ / $^{130}\text{Sn}$ / $^{131}\text{Sn}$ / $^{132}\text{Sn}$ / $^{133}\text{Sb}$ / $^{134}\text{Sb}$ , $E=500$ MeV / nucleon; measured pygmy dipole resonance strength, neutron skin thickness, symmetry parameters; deduced neutron separation energy, $B(E1)$ using RQRPA approach. Compared to $^{116}\text{Sn}$ , $^{140}\text{Ce}$ , $^{142}\text{Nd}$ , $^{144}\text{Sm}$ , $^{208}\text{Pb}$ . JOUR PRVCA 76 051603
-------------------	----------	--

**A=129 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>129</sup> Sb	2007NA31

**A=129 (*continued*)**

<sup>129</sup> Te	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2008EA01		NUCLEAR REACTIONS <sup>120,122,124,126,128,130</sup> Te(n, $\gamma$ ), E not given; measured E $\gamma$ , I $\gamma$ , cross sections, resonance integral. JOUR PRVCA 77 024303
<sup>129</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131, <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=129 (*continued*)**

2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{129}\text{Xe}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{129}\text{Cs}$	2007NA31 NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=129 (continued)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{129}\text{Ba}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=130**

$^{130}\text{Sn}$	2007KL06	NUCLEAR REACTIONS $\text{Be}(^{238}\text{U}, \text{X})^{129}\text{Sn}$ / $^{130}\text{Sn}$ / $^{131}\text{Sn}$ / $^{132}\text{Sn}$ / $^{133}\text{Sb}$ / $^{134}\text{Sb}$ , E=500 MeV / nucleon; measured pygmy dipole resonance strength, neutron skin thickness, symmetry parameters; deduced neutron separation energy, B(E1) using RQRPA approach. Compared to $^{116}\text{Sn}$ , $^{140}\text{Ce}$ , $^{142}\text{Nd}$ , $^{144}\text{Sm}$ , $^{208}\text{Pb}$ . JOUR PRVCA 76 051603
-------------------	----------	--

**A=130 (*continued*)**

2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92, <sup>93</sup> ,94,95, <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99, <sup>100</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>130</sup> Sb	2007NA31

**A=130 (continued)**

<sup>130</sup> Te	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99, <sup>100</sup> Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, <sup>130</sup> In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132,Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,138,Te, 109,111,113,115,117,119,121,123,125,127,129,131,I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144,Xe, 117,119,121,123,125,127,129,Cs; systematics. JOUR PRVCA 76 054301
<sup>130</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Mo, 92,93,94,95,96, <sup>97</sup> Tc, 95,96, <sup>97</sup> Ru, 97,98,99, <sup>100</sup> Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132,Ba; measured cross sections. JOUR PRVCA 76 064609

**A=130 (continued)**

<sup>130</sup> Xe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301
<sup>130</sup> Cs	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98, <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=130 (continued)**

$^{130}\text{Ba}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{130}\text{Ce}$	2008ME02	RADIOACTIVITY $^{130}\text{Pr}(\beta^+)(\text{EC})$ [from $^{107}\text{Ag}({}^{27}\text{Al}, \text{p}3\text{n})$ , E=113 MeV]; measured $E_\gamma$ , $I_\gamma$ , $\gamma\gamma$ -coin. $^{130}\text{Ce}$ ; deduced levels, J, $\pi$ , B(E2), comparison with calculations using X(5) and IBA models. JOUR PRVCA 77 014307
$^{130}\text{Pr}$	2008ME02	RADIOACTIVITY $^{130}\text{Pr}(\beta^+)(\text{EC})$ [from $^{107}\text{Ag}({}^{27}\text{Al}, \text{p}3\text{n})$ , E=113 MeV]; measured $E_\gamma$ , $I_\gamma$ , $\gamma\gamma$ -coin. $^{130}\text{Ce}$ ; deduced levels, J, $\pi$ , B(E2), comparison with calculations using X(5) and IBA models. JOUR PRVCA 77 014307

**A=131**

$^{131}\text{Sn}$	2007KL06	NUCLEAR REACTIONS $\text{Be}({}^{238}\text{U}, \text{X})^{129}\text{Sn} / {}^{130}\text{Sn} / {}^{131}\text{Sn} / {}^{132}\text{Sn} / {}^{133}\text{Sb} / {}^{134}\text{Sb}$ , E=500 MeV / nucleon; measured pygmy dipole resonance strength, neutron skin thickness, symmetry parameters; deduced neutron separation energy, B(E1) using RQRPA approach. Compared to $^{116}\text{Sn}$ , $^{140}\text{Ce}$ , $^{142}\text{Nd}$ , $^{144}\text{Sm}$ , $^{208}\text{Pb}$ . JOUR PRVCA 76 051603
	2008DW01	ATOMIC MASSES $^{127,131,132,133,134}\text{Sn}$ ; measured masses using the ISOLTRAP mass spectrometer. Discussed implications on the N=82 neutron-shell gap. JOUR PRLTA 100 072501

**A=131 (*continued*)**

$^{131}\text{Sb}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
$^{131}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{98}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
2008EA01		NUCLEAR REACTIONS $^{120,122,124,126,128,130}\text{Te}(\text{n}, \gamma)$ , E not given; measured $\text{E}\gamma$ , $\text{I}\gamma$ , cross sections, resonance integral. JOUR PRVCA 77 024303
2008EA01		RADIOACTIVITY $^{121m}\text{Te}$ , $^{121}\text{Te}$ , $^{127m}\text{Te}$ , $^{131m}\text{Te}$ ; measured half-lives. JOUR PRVCA 77 024303

**A=131 (*continued*)**

<sup>131</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 <sup>138</sup> Te, 109,111,113,115,117,119,121,123,125,127,129, <sup>131</sup> I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 <sup>144</sup> Xe, 117,119,121,123,125,127,129 <sup>129</sup> Cs; systematics. JOUR PRVCA 76 054301
<sup>131</sup> Xe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96,97,98, <sup>99</sup> Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 <sup>104</sup> Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>106</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108, <sup>109</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, <sup>115</sup> Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>122</sup> Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 <sup>125</sup> Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>127</sup> In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 <sup>130</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 <sup>132</sup> Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>134</sup> Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>135</sup> I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135 <sup>136</sup> Cs, 127,128,129,130,131,132 <sup>132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=131 (*continued*)**

$^{131}\text{Cs}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
2008RA04		RADIOACTIVITY $^{131}\text{Ba}(\beta^+)$ ; measured E $\gamma$ , I $\gamma$ , conversion electrons. $^{131}\text{Cs}$ ; deduced levels, ICC, transition multipolarities. JOUR ARISE 66 377
$^{131}\text{Ba}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96, $^{99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98, $^{99}\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114, $^{115}\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130, $^{130}\text{Sn}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131, $^{132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609
2008RA04		RADIOACTIVITY $^{131}\text{Ba}(\beta^+)$ ; measured E $\gamma$ , I $\gamma$ , conversion electrons. $^{131}\text{Cs}$ ; deduced levels, ICC, transition multipolarities. JOUR ARISE 66 377

A=132

- |                   |          |   |
|-------------------|----------|---|
| $^{132}\text{Sn}$ | 2007KL06 | NUCLEAR REACTIONS $\text{Be}^{(238)\text{U}, \text{X}} 129\text{Sn} / 130\text{Sn} / 131\text{Sn} / 132\text{Sn} / 133\text{Sb} / 134\text{Sb}$ , $E=500$ MeV / nucleon; measured pygmy dipole resonance strength, neutron skin thickness, symmetry parameters; deduced neutron separation energy, $B(E1)$ using RQRPA approach. Compared to $^{116}\text{Sn}$ , $^{140}\text{Ce}$ , $^{142}\text{Nd}$ , $^{144}\text{Sm}$ , $^{208}\text{Pb}$ . JOUR PRVCA 76 051603   |
|                   | 2008DW01 | ATOMIC MASSES $^{127,131,132,133,134}\text{Sn}$ ; measured masses using the ISOLTRAP mass spectrometer. Discussed implications on the $N=82$ neutron-shell gap. JOUR PRLTA 100 072501   |
| $^{132}\text{Sb}$ | 2007NA31 | NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1$ GeV / nucleon; measured isotopic cross sections, kinetic energies. $^{79,80,81,82,83,84,85,86,87,88,89,90,91,92,93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Y}$ , $^{86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Zr}$ , $^{87,88,89,90,91,92,93,94,95,96,97,98,99,100}\text{Nb}$ , $^{90,91,92,93,94,95,96,97,98,99,100,101,102,103,104}\text{Mo}$ , $^{92,93,94,95,96,97,98,99,100,101,102,103,104,105,106}\text{Tc}$ , $^{95,96,97,98,99,100,101,102,103,104,105,106,107,108,109}\text{Ru}$ , $^{97,98,99,100,101,102,103,104,105,106,107,108,109,110,111}\text{Rh}$ , $^{99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127}\text{Ag}$ , $^{104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Cd}$ , $^{105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{In}$ , $^{108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130}\text{Sn}$ , $^{110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132}\text{Sb}$ , $^{111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134}\text{Te}$ , $^{113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{I}$ , $^{116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Xe}$ , $^{122,123,124,125,126,127,128,129,130,131,132,133,134,135}\text{Cs}$ , $^{127,128,129,130,131,132}\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609 |

**A=132 (continued)**

$^{132}\text{Te}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301
$^{132}\text{I}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=132 (*continued*)**

$^{132}\text{Xe}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301
$^{132}\text{Cs}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90Rb, 81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 87,88,89,90,91,92,93,94,95,96,97,98,99,100Nb, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=132 (*continued*)**

- <sup>132</sup>Ba      2007NA31      NUCLEAR REACTIONS  $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93 $\text{Sr}$ , 84,85,86,87,88,89,90,91,92,93,94,95,96 $\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99 $\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104 $\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 $\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109 $\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111 $\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 $\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 $\text{Ag}$ , 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125 $\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 $\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130 $\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132 $\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 $\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135 $\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=133**

- <sup>133</sup>Sn      2008DW01      ATOMIC MASSES 127,131,132,133,134 $\text{Sn}$ ; measured masses using the ISOLTRAP mass spectrometer. Discussed implications on the N=82 neutron-shell gap. JOUR PRLTA 100 072501
- <sup>133</sup>Sb      2007KL06      NUCLEAR REACTIONS  $\text{Be}^{(238}\text{U}, \text{X})^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{133}\text{Sb} / ^{134}\text{Sb}$ , E=500 MeV / nucleon; measured pygmy dipole resonance strength, neutron skin thickness, symmetry parameters; deduced neutron separation energy, B(E1) using RQRPA approach. Compared to <sup>116</sup>Sn, <sup>140</sup>Ce, <sup>142</sup>Nd, <sup>144</sup>Sm, <sup>208</sup>Pb. JOUR PRVCA 76 051603

**A=133 (*continued*)**

<sup>133</sup> Te	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>133</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> In, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130Sn, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=133 (continued)**

$^{133}\text{Xe}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2008PE04		RADIOACTIVITY $^{133}\text{Xe}(\text{IT})$ ; measured $E\gamma$ , $I\gamma$ , conversion electrons. Deduced ICC. JOUR ARISE 66 530
$^{133}\text{Cs}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , $E=1\text{ GeV}$ / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96Y, 86,87,88,89,90,91,92,93,94,95,96,97,98,99Nb, 87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104Mo, 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106Tc, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109Ru, 95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111Rh, 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

A=134

<sup>134</sup> Sn	2008DW01	ATOMIC MASSES 127,131,132,133,134Sn; measured masses using the ISOLTRAP mass spectrometer. Discussed implications on the N=82 neutron-shell gap. JOUR PRLTA 100 072501
<sup>134</sup> Sb	2007KL06	NUCLEAR REACTIONS Be( <sup>238</sup> U, X) <sup>129</sup> Sn / <sup>130</sup> Sn / <sup>131</sup> Sn / <sup>132</sup> Sn / <sup>133</sup> Sb / <sup>134</sup> Sb, E=500 MeV / nucleon; measured pygmy dipole resonance strength, neutron skin thickness, symmetry parameters; deduced neutron separation energy, B(E1) using RQRPA approach. Compared to <sup>116</sup> Sn, <sup>140</sup> Ce, <sup>142</sup> Nd, <sup>144</sup> Sm, <sup>208</sup> Pb. JOUR PRVCA 76 051603
<sup>134</sup> Te	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93Sr, <sup>84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99</sup> Zr, <sup>86,87,88,89,90,91,92,93,94,95,96,97,98,99,100</sup> Nb, <sup>90,91,92,93,94,95,96,97,98,99,100,101,102,103,104</sup> Mo, <sup>92,93,94,95,96,97,98,99,100,101,102,103,104,105,106</sup> Tc, <sup>95,96,97,98,99,100,101,102,103,104,105,106,107,108,109</sup> Ru, <sup>97,98,99,100,101,102,103,104,105,106,107,108,109,110,111</sup> Rh, <sup>99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Pd, <sup>101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Ag, <sup>104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Cd, <sup>105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> In, <sup>108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Sn, <sup>110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Sb, <sup>111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Te, <sup>113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> I, <sup>116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Xe, <sup>122,123,124,125,126,127,128,129,130,131,132,133,134,135</sup> Cs, <sup>127,128,129,130,131,132</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
	2007PE32	NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, <sup>109,111,113,115,117,119,121,123,125,127,129,131</sup> I, <sup>110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144</sup> Xe, <sup>117,119,121,123,125,127,129</sup> Cs; systematics. JOUR PRVCA 76 054301

**A=134 (*continued*)**

<sup>134</sup> I	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98,99, <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>134</sup> Xe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> Mo, 92,93,94,95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> Tc, 95,96, <sup>97</sup> , <sup>98</sup> , <sup>99</sup> , <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> Ru, 97,98,99, <sup>100</sup> , <sup>101</sup> , <sup>102</sup> , <sup>103</sup> , <sup>104</sup> , <sup>105</sup> , <sup>106</sup> , <sup>107</sup> , <sup>108</sup> , <sup>109</sup> , <sup>110</sup> , <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115Pd, 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122Ag, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127In, 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609
2007PE32		NUCLEAR REACTIONS <sup>58</sup> Ni( <sup>54</sup> Fe, 2np), E=195 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. <sup>109</sup> I; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138Te, 109,111,113,115,117,119,121,123,125,127,129,131I, 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144Xe, 117,119,121,123,125,127,129Cs; systematics. JOUR PRVCA 76 054301

**A=134 (*continued*)**

<sup>134</sup>Cs      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Mo, 92,93,94,95,96,<sup>97</sup>Tc, 95,96,<sup>97</sup>Ru, 97,98,99,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>,<sup>110</sup>,<sup>111</sup>,<sup>112</sup>,<sup>113</sup>,<sup>114</sup>,<sup>115</sup>,<sup>116</sup>,<sup>117</sup>,<sup>118</sup>,<sup>119</sup>,<sup>120</sup>,<sup>121</sup>,<sup>122</sup>,<sup>123</sup>,<sup>124</sup>,<sup>125</sup>,<sup>126</sup>,<sup>127</sup>,<sup>128</sup>,<sup>129</sup>,<sup>130</sup>,<sup>131</sup>,<sup>132</sup>,<sup>133</sup>,<sup>134</sup>In, 104,105,106,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>,<sup>110</sup>,<sup>111</sup>,<sup>112</sup>,<sup>113</sup>,<sup>114</sup>,<sup>115</sup>,<sup>116</sup>,<sup>117</sup>,<sup>118</sup>,<sup>119</sup>,<sup>120</sup>,<sup>121</sup>,<sup>122</sup>,<sup>123</sup>,<sup>124</sup>,<sup>125</sup>,<sup>126</sup>,<sup>127</sup>,<sup>128</sup>,<sup>129</sup>,<sup>130</sup>,<sup>131</sup>,<sup>132</sup>,<sup>133</sup>,<sup>134</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=135**

<sup>135</sup>I      2007NA31      NUCLEAR REACTIONS <sup>136</sup>Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89,<sup>90</sup>Rb, 81,82,83,84,85,86,87,88,89,90,91,92,<sup>93</sup>Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Y, 86,87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Zr, 87,88,89,90,91,92,93,94,95,96,<sup>97</sup>Nb, 90,91,92,93,94,95,96,<sup>97</sup>Mo, 92,93,94,95,96,<sup>97</sup>Tc, 95,96,<sup>97</sup>Ru, 97,98,99,<sup>100</sup>,<sup>101</sup>,<sup>102</sup>,<sup>103</sup>,<sup>104</sup>,<sup>105</sup>,<sup>106</sup>,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>,<sup>110</sup>,<sup>111</sup>,<sup>112</sup>,<sup>113</sup>,<sup>114</sup>,<sup>115</sup>,<sup>116</sup>,<sup>117</sup>,<sup>118</sup>,<sup>119</sup>,<sup>120</sup>,<sup>121</sup>,<sup>122</sup>,<sup>123</sup>,<sup>124</sup>,<sup>125</sup>,<sup>126</sup>,<sup>127</sup>,<sup>128</sup>,<sup>129</sup>,<sup>130</sup>,<sup>131</sup>,<sup>132</sup>,<sup>133</sup>,<sup>134</sup>In, 104,105,106,<sup>107</sup>,<sup>108</sup>,<sup>109</sup>,<sup>110</sup>,<sup>111</sup>,<sup>112</sup>,<sup>113</sup>,<sup>114</sup>,<sup>115</sup>,<sup>116</sup>,<sup>117</sup>,<sup>118</sup>,<sup>119</sup>,<sup>120</sup>,<sup>121</sup>,<sup>122</sup>,<sup>123</sup>,<sup>124</sup>,<sup>125</sup>,<sup>126</sup>,<sup>127</sup>,<sup>128</sup>,<sup>129</sup>,<sup>130</sup>,<sup>131</sup>,<sup>132</sup>,<sup>133</sup>,<sup>134</sup>Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,Te, 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132Ba; measured cross sections. JOUR PRVCA 76 064609

**A=135 (*continued*)**

<sup>135</sup> Xe	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>123</sup> In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132 <sup>133</sup> Ba; measured cross sections. JOUR PRVCA 76 064609
<sup>135</sup> Cs	2007NA31	NUCLEAR REACTIONS <sup>136</sup> Xe(p, X), E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, <sup>90</sup> Rb, 81,82,83,84,85,86,87,88,89,90,91,92, <sup>93</sup> Sr, 84,85,86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Y, 86,87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Zr, 87,88,89,90,91,92,93,94,95,96, <sup>97</sup> Nb, 90,91,92,93,94,95,96, <sup>97</sup> Pd, 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106 <sup>107</sup> Tc, 95,96,97,98,99,100,101,102,103,104,105,106,107, <sup>108</sup> Ru, 97,98,99,100,101,102,103,104,105,106,107,108,109,110, <sup>111</sup> Rh, 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122 <sup>123</sup> In, 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,Cd, 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127 <sup>128</sup> Sn, 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,Sb, 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134 <sup>Te</sup> , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,I, 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,Xe, 122,123,124,125,126,127,128,129,130,131,132,133,134,135,Cs, 127,128,129,130,131,132 <sup>133</sup> Ba; measured cross sections. JOUR PRVCA 76 064609

**A=136**

$^{136}\text{Te}$	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{136}\text{Xe}$	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{136}\text{Cs}$	2007NA31	NUCLEAR REACTIONS $^{136}\text{Xe}(\text{p}, \text{X})$ , E=1 GeV / nucleon; measured isotopic cross sections, kinetic energies. 79,80,81,82,83,84,85,86,87,88,89, $^{90}\text{Rb}$ , 81,82,83,84,85,86,87,88,89,90,91,92, $^{93}\text{Sr}$ , $^{84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99}\text{Y}$ , 86,87,88,89,90,91,92,93,94,95,96,97,98,99 $\text{Zr}$ , 87,88,89,90,91,92,93,94,95,96,97,98,99, $^{100}\text{Nb}$ , 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104, $^{104}\text{Mo}$ , 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{106}\text{Tc}$ , 95,96,97,98,99,100,101,102,103,104,105,106,107,108, $^{109}\text{Ru}$ , 97,98,99,100,101,102,103,104,105,106,107,108,109,110, $^{111}\text{Rh}$ , 99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115 $\text{Pd}$ , 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125, $^{125}\text{Cd}$ , 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127, $^{127}\text{In}$ , 108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{130}\text{Sn}$ , 110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132, $^{132}\text{Sb}$ , 111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133, $^{134}\text{Te}$ , 113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{I}$ , 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134, $^{135}\text{Xe}$ , 122,123,124,125,126,127,128,129,130,131,132,133,134,135, $^{136}\text{Cs}$ , 127,128,129,130,131,132 $\text{Ba}$ ; measured cross sections. JOUR PRVCA 76 064609

**A=137**

No references found

**A=138**

$^{138}\text{Te}$	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{138}\text{Xe}$	2007KR19	NUCLEAR REACTIONS $^{96}\text{Mo}(^{138}\text{Xe}, ^{138}\text{Xe}')$ , ( $^{140}\text{Xe}, ^{140}\text{Xe}'$ ), ( $^{142}\text{Xe}, ^{142}\text{Xe}'$ ), E=2.84 MeV / nucleon; measured $E\gamma$ , $I\gamma$ . $^{138,140,142}\text{Xe}$ ; deduced B(E2). JOUR ZSTNE 150 127
	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301

**A=139**

$^{139}\text{Ba}$	2008KA01	NUCLEAR REACTIONS $^{138}\text{Ba}$ , $^{140}\text{Ce}$ , $^{142}\text{Nd}$ , $^{144}\text{Sm}(\alpha, ^3\text{He})$ , E=51 MeV; measured $\sigma(\theta)$ , excitation energy spectra; deduced spectroscopic factor and single-neutron energies. JOUR PYLBB 658 216
$^{139}\text{Nd}$	2007HI13	NUCLEAR REACTIONS $^{141}\text{Pr}(\text{p}, \text{n})^{141}\text{Nd}^m$ , E=9.0, 9.6, 10.3, 10.8, 11.3, 12.4, 12.7, 13.3, 14.3, 15.6 MeV; $^{141}\text{Pr}(\text{p}, 3\text{n})^{139}\text{Nd}^m$ , E=21.0, 25.3, 26.6, 29.5, 30.4, 32.9, 39.1, 41.6, 43.8, 44.8 MeV; $\text{Ce}(^3\text{He}, \text{xn})^{141}\text{Nd}^m$ , E=18.3, 19.4, 20.7, 22.1, 22.9, 23.3, 24.5, 25.6, 26.5, 28.1, 29.2, 30.3, 31.3, 32.3, 34.2 MeV; $\text{Ce}(^3\text{He}, \text{xn})^{141}\text{Nd}^m$ , E=27.7, 29.1, 30.5, 32.0, 32.0, 33.2, 33.8, 35.2 MeV; measured $E\gamma$ , $I\gamma$ , cross sections, excitation functions. Comparison with experimental values. JOUR PRVCA 76 064601
	2008FE02	NUCLEAR REACTIONS $^{126}\text{Te}(^{18}\text{O}, 4\text{n})$ , ( $^{18}\text{O}, 5\text{n}$ ), E=75 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{139,140}\text{Nd}$ deduced level energies, J, $\pi$ , $T_{1/2}$ . $^{27}\text{Al}(^{18}\text{O}, 2\text{n})$ , E=75 MeV; measured $E\gamma$ , $I\gamma$ . $^{43}\text{Sc}$ ; measured half-life of isomeric state. ALTO facility. JOUR ZAANE 35 167

**A=140**

$^{140}\text{Xe}$	2007KR19	NUCLEAR REACTIONS $^{96}\text{Mo}(^{138}\text{Xe}, ^{138}\text{Xe}')$ , ( $^{140}\text{Xe}, ^{140}\text{Xe}'$ ), ( $^{142}\text{Xe}, ^{142}\text{Xe}'$ ), E=2.84 MeV / nucleon; measured $E\gamma$ , $I\gamma$ . $^{138,140,142}\text{Xe}$ ; deduced B(E2). JOUR ZSTNE 150 127
-------------------	----------	--

**A=140 (continued)**

	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}$ ( $^{54}\text{Fe}$ , 2np), E=195 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127, $^{129}\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{140}\text{Ba}$	2007VE14	NUCLEAR REACTIONS $^{238}\text{U}$ ( $^{12}\text{C}$ , X) $^{140}\text{Ba}$ / $^{142}\text{Ce}$ , E=90 MeV; $^{208}\text{Pb}$ ( $^{18}\text{O}$ , X) $^{140}\text{Ba}$ / $^{142}\text{Ce}$ , E=85 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{140}\text{Ba}$ , $^{142}\text{Ce}$ deduced high-spin levels, J, $\pi$ , configurations. Euroball III and IV arrays. JOUR ZAANE 34 349
$^{140}\text{Ce}$	2007LI71	RADIOACTIVITY $^{140}\text{Pr}(\beta^+)$ , (EC); measured decay rates for bare nuclei, hydrogenlike, and heliumlike configurations. JOUR PRLTA 99 262501
	2008KU06	RADIOACTIVITY $^{140}\text{Pr}(\text{EC})$ , ( $\beta^+$ ); measured Schottky frequency spectra of ions stored in an ESR storage ring. $^{140}\text{Pr}(\text{EC})$ , ( $\beta^+$ ); deduced decay constant and half-life. JOUR APOBB 39 501
$^{140}\text{Pr}$	2007LI71	RADIOACTIVITY $^{140}\text{Pr}(\beta^+)$ , (EC); measured decay rates for bare nuclei, hydrogenlike, and heliumlike configurations. JOUR PRLTA 99 262501
	2008KU06	RADIOACTIVITY $^{140}\text{Pr}(\text{EC})$ , ( $\beta^+$ ); measured Schottky frequency spectra of ions stored in an ESR storage ring. $^{140}\text{Pr}(\text{EC})$ , ( $\beta^+$ ); deduced decay constant and half-life. JOUR APOBB 39 501
$^{140}\text{Nd}$	2008FE02	NUCLEAR REACTIONS $^{126}\text{Te}$ ( $^{18}\text{O}$ , 4n), ( $^{18}\text{O}$ , 5n), E=75 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{139,140}\text{Nd}$ deduced level energies, J, $\pi$ , $T_{1/2}$ . $^{27}\text{Al}$ ( $^{18}\text{O}$ , 2n), E=75 MeV; measured $E\gamma$ , $I\gamma$ . $^{43}\text{Sc}$ ; measured half-life of isomeric state. ALTO facility. JOUR ZAANE 35 167

**A=141**

$^{141}\text{Ce}$	2008KA01	NUCLEAR REACTIONS $^{138}\text{Ba}$ , $^{140}\text{Ce}$ , $^{142}\text{Nd}$ , $^{144}\text{Sm}(\alpha, ^3\text{He})$ , E=51 MeV; measured $\sigma(\theta)$ , excitation energy spectra; deduced spectroscopic factor and single-neutron energies. JOUR PYLBB 658 216
$^{141}\text{Nd}$	2007HI13	NUCLEAR REACTIONS $^{141}\text{Pr}(p, n)^{141}\text{Nd}^m$ , E=9.0, 9.6, 10.3, 10.8, 11.3, 12.4, 12.7, 13.3, 14.3, 15.6 MeV; $^{141}\text{Pr}(p, 3n)^{139}\text{Nd}^m$ , E=21.0, 25.3, 26.6, 29.5, 30.4, 32.9, 39.1, 41.6, 43.8, 44.8 MeV; $\text{Ce}(^3\text{He}, xn)^{141}\text{Nd}^m$ , E=18.3, 19.4, 20.7, 22.1, 22.9, 23.3, 24.5, 25.6, 26.5, 28.1, 29.2, 30.3, 31.3, 32.3, 34.2 MeV; $\text{Ce}(^3\text{He}, xn)^{141}\text{Nd}^m$ , E=27.7, 29.1, 30.5, 32.0, 32.0, 33.2, 33.8, 35.2 MeV; measured $E\gamma$ , $I\gamma$ , cross sections, excitation functions. Comparison with experimental values. JOUR PRVCA 76 064601
	2007PA45	NUCLEAR REACTIONS $^{142}\text{Nd}(\gamma, n)$ , E < 35 MeV; measured $E\gamma$ , $I\gamma$ . Deduced isomeric yield ratio. JOUR AENGA 103 827

**A=142**

$^{142}\text{Xe}$	2007KR19	NUCLEAR REACTIONS $^{96}\text{Mo}(^{138}\text{Xe}, ^{138}\text{Xe}')$ , $(^{140}\text{Xe}, ^{140}\text{Xe}')$ , $(^{142}\text{Xe}, ^{142}\text{Xe}')$ , E=2.84 MeV / nucleon; measured $E\gamma$ , $I\gamma$ . $^{138,140,142}\text{Xe}$ ; deduced B(E2). JOUR ZSTNE 150 127
	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127,129 $\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{142}\text{Ce}$	2007VE14	NUCLEAR REACTIONS $^{238}\text{U}(^{12}\text{C}, \text{X})^{140}\text{Ba}$ / $^{142}\text{Ce}$ , E=90 MeV; $^{208}\text{Pb}(^{18}\text{O}, \text{X})^{140}\text{Ba}$ / $^{142}\text{Ce}$ , E=85 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{140}\text{Ba}$ , $^{142}\text{Ce}$ deduced high-spin levels, J, $\pi$ , configurations. Euroball III and IV arrays. JOUR ZAANE 34 349
$^{142}\text{Gd}$	2008LI08	NUCLEAR REACTIONS $^{114}\text{Sn}(^{32}\text{S}, 2\text{n}2\text{p})$ , E=160 MeV; $^{99}\text{Ru}(^{48}\text{Ti}, 3\text{n}2\text{p})$ , E=240 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, DSA. $^{142}\text{Gd}$ deduced high-spin levels, J, $\pi$ , B(E2), $T_{1/2}$ ; calculated configurations with cranked Nilsson-Strutinsky and interacting boson models. Euroball III and IV arrays. JOUR ZAANE 35 135

**A=143**

$^{143}\text{Nd}$	2008KA01	NUCLEAR REACTIONS $^{138}\text{Ba}$ , $^{140}\text{Ce}$ , $^{142}\text{Nd}$ , $^{144}\text{Sm}(\alpha, ^3\text{He})$ , E=51 MeV; measured $\sigma(\theta)$ , excitation energy spectra; deduced spectroscopic factor and single-neutron energies. JOUR PYLBB 658 216
$^{143}\text{Tb}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
$^{143}\text{Dy}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329

**A=144**

$^{144}\text{Xe}$	2007PE32	NUCLEAR REACTIONS $^{58}\text{Ni}(^{54}\text{Fe}, 2\text{np})$ , E=195 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ , multipolarities. $^{109}\text{I}$ ; deduced levels, J, $\pi$ , rotational bands; calculated configurations. JUROGAM array. 106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 $\text{Te}$ , 109,111,113,115,117,119,121,123,125,127,129,131 $\text{I}$ , 110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144 $\text{Xe}$ , 117,119,121,123,125,127,129 $\text{Cs}$ ; systematics. JOUR PRVCA 76 054301
$^{144}\text{Dy}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329

**A=144 (*continued*)**

$^{144}\text{Ho}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
	2008RA03	ATOMIC MASSES $^{144,145,146,147}\text{Ho}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. JOUR PRLTA 100 012501

**A=145**

$^{145}\text{Sm}$	2008KA01	NUCLEAR REACTIONS $^{138}\text{Ba}$ , $^{140}\text{Ce}$ , $^{142}\text{Nd}$ , $^{144}\text{Sm}(\alpha, ^3\text{He})$ , E=51 MeV; measured $\sigma(\theta)$ , excitation energy spectra; deduced spectroscopic factor and single-neutron energies. JOUR PYLBB 658 216
$^{145}\text{Dy}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
$^{145}\text{Ho}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
	2008RA03	ATOMIC MASSES $^{144,145,146,147}\text{Ho}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. JOUR PRLTA 100 012501

**A=146**

$^{146}\text{Dy}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
$^{146}\text{Ho}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
	2008RA03	ATOMIC MASSES $^{144,145,146,147}\text{Ho}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. JOUR PRLTA 100 012501
$^{146}\text{Er}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329

**A=147**

<sup>147</sup> Nd	2008HA04	NUCLEAR REACTIONS <sup>148,150</sup> Nd, <sup>154</sup> Sm, <sup>154,160</sup> Gd( $\gamma$ , n), E=7450-9800 keV [from Cu(e, $\gamma$ )]; measured E $\gamma$ , I $\gamma$ , photon flux, normalization, cross section; deduced reaction rates. JOUR PRVCA 77 015803
<sup>147</sup> Gd	2007P013	RADIOACTIVITY <sup>147</sup> Gd, <sup>148</sup> Tb, <sup>204</sup> Pt(IT); measured delayed E $\gamma$ , I $\gamma$ from isomer decays. JOUR ZSTNE 150 165
<sup>147</sup> Tb	2007RA37	ATOMIC MASSES <sup>143,147</sup> Tb, <sup>143,144,145,146,147,148</sup> Dy, <sup>144,145,146,147,148</sup> Ho, <sup>146,147,148</sup> Er, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
<sup>147</sup> Dy	2007RA37	ATOMIC MASSES <sup>143,147</sup> Tb, <sup>143,144,145,146,147,148</sup> Dy, <sup>144,145,146,147,148</sup> Ho, <sup>146,147,148</sup> Er, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
<sup>147</sup> Ho	2007RA37	ATOMIC MASSES <sup>143,147</sup> Tb, <sup>143,144,145,146,147,148</sup> Dy, <sup>144,145,146,147,148</sup> Ho, <sup>146,147,148</sup> Er, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
	2008RA03	ATOMIC MASSES <sup>144,145,146,147</sup> Ho, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. JOUR PRLTA 100 012501
<sup>147</sup> Er	2007RA37	ATOMIC MASSES <sup>143,147</sup> Tb, <sup>143,144,145,146,147,148</sup> Dy, <sup>144,145,146,147,148</sup> Ho, <sup>146,147,148</sup> Er, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
<sup>147</sup> Tm	2007RA37	ATOMIC MASSES <sup>143,147</sup> Tb, <sup>143,144,145,146,147,148</sup> Dy, <sup>144,145,146,147,148</sup> Ho, <sup>146,147,148</sup> Er, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
	2008RA03	ATOMIC MASSES <sup>144,145,146,147</sup> Ho, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. JOUR PRLTA 100 012501

**A=148**

<sup>148</sup> Tb	2007P013	RADIOACTIVITY <sup>147</sup> Gd, <sup>148</sup> Tb, <sup>204</sup> Pt(IT); measured delayed E $\gamma$ , I $\gamma$ from isomer decays. JOUR ZSTNE 150 165
<sup>148</sup> Dy	2007RA37	ATOMIC MASSES <sup>143,147</sup> Tb, <sup>143,144,145,146,147,148</sup> Dy, <sup>144,145,146,147,148</sup> Ho, <sup>146,147,148</sup> Er, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
<sup>148</sup> Ho	2007RA37	ATOMIC MASSES <sup>143,147</sup> Tb, <sup>143,144,145,146,147,148</sup> Dy, <sup>144,145,146,147,148</sup> Ho, <sup>146,147,148</sup> Er, <sup>147,148</sup> Tm; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329

**A=148 (*continued*)**

$^{148}\text{Er}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
$^{148}\text{Tm}$	2007RA37	ATOMIC MASSES $^{143,147}\text{Tb}$ , $^{143,144,145,146,147,148}\text{Dy}$ , $^{144,145,146,147,148}\text{Ho}$ , $^{146,147,148}\text{Er}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. Compared results to previous results. JOUR ZSTNE 150 329
	2008RA03	ATOMIC MASSES $^{144,145,146,147}\text{Ho}$ , $^{147,148}\text{Tm}$ ; measured masses using the SHIPTRAP penning trap mass spectrometer. JOUR PRLTA 100 012501

**A=149**

$^{149}\text{Nd}$	2008HA04	NUCLEAR REACTIONS $^{148,150}\text{Nd}$ , $^{154}\text{Sm}$ , $^{154,160}\text{Gd}(\gamma, n)$ , E=7450-9800 keV [from Cu(e, $\gamma$ )]; measured $E\gamma$ , $I\gamma$ , photon flux, normalization, cross section; deduced reaction rates. JOUR PRVCA 77 015803
	2008JA01	NUCLEAR REACTIONS $^{148}\text{Nd}(d, p)$ , E=12.1 MeV; $^{150}\text{Nd}(d, t)$ , E=12.1 MeV; measured reaction product spectra and angular distributions, cross sections. $^{149}\text{Nd}$ ; deduced levels, $J, \pi$ . DWBA analysis. JOUR APOBB 39 695

**A=150**

No references found

**A=151**

$^{151}\text{Tb}$	2008R002	NUCLEAR REACTIONS $^{130}\text{Te}(^{27}\text{Al}, xn)$ , E=155 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{151,152}\text{Tb}$ ; deduced levels, $J, \pi$ , superdeformed bands, dynamical moments, configurations; calculated single-particle energy levels. Compared with calculations and superdeformed bands in $^{150}\text{Tb}$ , $^{152}\text{Dy}$ . JOUR PRVCA 77 014308
-------------------	----------	---

**A=152**

$^{152}\text{Tb}$	2008R002	NUCLEAR REACTIONS $^{130}\text{Te}(^{27}\text{Al}, xn)$ , E=155 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{151,152}\text{Tb}$ ; deduced levels, $J, \pi$ , superdeformed bands, dynamical moments, configurations; calculated single-particle energy levels. Compared with calculations and superdeformed bands in $^{150}\text{Tb}$ , $^{152}\text{Dy}$ . JOUR PRVCA 77 014308
-------------------	----------	---

**A=153**

- <sup>153</sup>Sm      2008HA04      NUCLEAR REACTIONS <sup>148,150</sup>Nd, <sup>154</sup>Sm, <sup>154,160</sup>Gd( $\gamma$ , n), E=7450-9800 keV [from Cu(e,  $\gamma$ )]; measured E $\gamma$ , I $\gamma$ , photon flux, normalization, cross section; deduced reaction rates. JOUR PRVCA 77 015803
- <sup>153</sup>Gd      2008HA04      NUCLEAR REACTIONS <sup>148,150</sup>Nd, <sup>154</sup>Sm, <sup>154,160</sup>Gd( $\gamma$ , n), E=7450-9800 keV [from Cu(e,  $\gamma$ )]; measured E $\gamma$ , I $\gamma$ , photon flux, normalization, cross section; deduced reaction rates. JOUR PRVCA 77 015803

**A=154**

No references found

**A=155**

No references found

**A=156**

No references found

**A=157**

- <sup>157</sup>Er      2008AG04      NUCLEAR REACTIONS <sup>120</sup>Sn(<sup>44</sup>Ca, 4n), E=210 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin; calculated potential energy surfaces; <sup>160</sup>Yb; deduced excitation energies, configurations, high-spin rotational bands, triaxial strongly-deformed bands. <sup>157,158</sup>Er, <sup>161</sup>Lu; systematics, comparison with theory. JOUR PRVCA 77 021302

**A=158**

- <sup>158</sup>Pm      2007HA57      RADIOACTIVITY <sup>158,159</sup>Pm, <sup>159,161</sup>Sm, <sup>160,161,162,163,164,165</sup>Eu, <sup>163</sup>Gd, <sup>166</sup>Tb( $\beta^-$ ) [from <sup>238</sup>U(p, F), E=24 MeV and subsequent decay]; measured E $\gamma$ , I $\gamma$ , E $\beta$ , I $\beta$ ; deduced Q $\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
- <sup>158</sup>Sm      2007HA57      RADIOACTIVITY <sup>158,159</sup>Pm, <sup>159,161</sup>Sm, <sup>160,161,162,163,164,165</sup>Eu, <sup>163</sup>Gd, <sup>166</sup>Tb( $\beta^-$ ) [from <sup>238</sup>U(p, F), E=24 MeV and subsequent decay]; measured E $\gamma$ , I $\gamma$ , E $\beta$ , I $\beta$ ; deduced Q $\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
- <sup>158</sup>Er      2008AG04      NUCLEAR REACTIONS <sup>120</sup>Sn(<sup>44</sup>Ca, 4n), E=210 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin; calculated potential energy surfaces; <sup>160</sup>Yb; deduced excitation energies, configurations, high-spin rotational bands, triaxial strongly-deformed bands. <sup>157,158</sup>Er, <sup>161</sup>Lu; systematics, comparison with theory. JOUR PRVCA 77 021302

**A=159**

$^{159}\text{Pm}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(p, F)$ , E=24 MeV and subsequent decay]; measured $E\gamma$ , $I\gamma$ , $E\beta$ , $I\beta$ ; deduced $Q\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{159}\text{Sm}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(p, F)$ , E=24 MeV and subsequent decay]; measured $E\gamma$ , $I\gamma$ , $E\beta$ , $I\beta$ ; deduced $Q\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{159}\text{Eu}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(p, F)$ , E=24 MeV and subsequent decay]; measured $E\gamma$ , $I\gamma$ , $E\beta$ , $I\beta$ ; deduced $Q\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{159}\text{Gd}$	2008HA04	NUCLEAR REACTIONS $^{148,150}\text{Nd}$ , $^{154}\text{Sm}$ , $^{154,160}\text{Gd}(\gamma, n)$ , E=7450-9800 keV [from Cu(e, $\gamma$ )]; measured $E\gamma$ , $I\gamma$ , photon flux, normalization, cross section; deduced reaction rates. JOUR PRVCA 77 015803

**A=160**

$^{160}\text{Eu}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(p, F)$ , E=24 MeV and subsequent decay]; measured $E\gamma$ , $I\gamma$ , $E\beta$ , $I\beta$ ; deduced $Q\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{160}\text{Gd}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(p, F)$ , E=24 MeV and subsequent decay]; measured $E\gamma$ , $I\gamma$ , $E\beta$ , $I\beta$ ; deduced $Q\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{160}\text{Yb}$	2008AG04	NUCLEAR REACTIONS $^{120}\text{Sn}(^{44}\text{Ca}, 4n)$ , E=210 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin; calculated potential energy surfaces; $^{160}\text{Yb}$ ; deduced excitation energies, configurations, high-spin rotational bands, triaxial strongly-deformed bands. $^{157,158}\text{Er}$ , $^{161}\text{Lu}$ ; systematics, comparison with theory. JOUR PRVCA 77 021302

**A=161**

$^{161}\text{Sm}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(p, F)$ , E=24 MeV and subsequent decay]; measured $E\gamma$ , $I\gamma$ , $E\beta$ , $I\beta$ ; deduced $Q\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{161}\text{Eu}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(p, F)$ , E=24 MeV and subsequent decay]; measured $E\gamma$ , $I\gamma$ , $E\beta$ , $I\beta$ ; deduced $Q\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{161}\text{Gd}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(p, F)$ , E=24 MeV and subsequent decay]; measured $E\gamma$ , $I\gamma$ , $E\beta$ , $I\beta$ ; deduced $Q\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363

**A=161 (*continued*)**

<sup>161</sup>Lu      2008AG04      NUCLEAR REACTIONS <sup>120</sup>Sn(<sup>44</sup>Ca, 4n), E=210 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin; calculated potential energy surfaces; <sup>160</sup>Yb; deduced excitation energies, configurations, high-spin rotational bands, triaxial strongly-deformed bands. <sup>157,158</sup>Er, <sup>161</sup>Lu; systematics, comparison with theory. JOUR PRVCA 77 021302

**A=162**

<sup>162</sup>Eu      2007HA57      RADIOACTIVITY <sup>158,159</sup>Pm, <sup>159,161</sup>Sm, <sup>160,161,162,163,164,165</sup>Eu, <sup>163</sup>Gd, <sup>166</sup>Tb( $\beta^-$ ) [from <sup>238</sup>U(p, F), E=24 MeV and subsequent decay]; measured E $\gamma$ , I $\gamma$ , E $\beta$ , I $\beta$ ; deduced Q $\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363

<sup>162</sup>Gd      2007HA57      RADIOACTIVITY <sup>158,159</sup>Pm, <sup>159,161</sup>Sm, <sup>160,161,162,163,164,165</sup>Eu, <sup>163</sup>Gd, <sup>166</sup>Tb( $\beta^-$ ) [from <sup>238</sup>U(p, F), E=24 MeV and subsequent decay]; measured E $\gamma$ , I $\gamma$ , E $\beta$ , I $\beta$ ; deduced Q $\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363

**A=163**

<sup>163</sup>Eu      2007HA57      RADIOACTIVITY <sup>158,159</sup>Pm, <sup>159,161</sup>Sm, <sup>160,161,162,163,164,165</sup>Eu, <sup>163</sup>Gd, <sup>166</sup>Tb( $\beta^-$ ) [from <sup>238</sup>U(p, F), E=24 MeV and subsequent decay]; measured E $\gamma$ , I $\gamma$ , E $\beta$ , I $\beta$ ; deduced Q $\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363

<sup>163</sup>Gd      2007HA57      RADIOACTIVITY <sup>158,159</sup>Pm, <sup>159,161</sup>Sm, <sup>160,161,162,163,164,165</sup>Eu, <sup>163</sup>Gd, <sup>166</sup>Tb( $\beta^-$ ) [from <sup>238</sup>U(p, F), E=24 MeV and subsequent decay]; measured E $\gamma$ , I $\gamma$ , E $\beta$ , I $\beta$ ; deduced Q $\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363

<sup>163</sup>Tb      2007HA57      RADIOACTIVITY <sup>158,159</sup>Pm, <sup>159,161</sup>Sm, <sup>160,161,162,163,164,165</sup>Eu, <sup>163</sup>Gd, <sup>166</sup>Tb( $\beta^-$ ) [from <sup>238</sup>U(p, F), E=24 MeV and subsequent decay]; measured E $\gamma$ , I $\gamma$ , E $\beta$ , I $\beta$ ; deduced Q $\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363

<sup>163</sup>Lu      2007ZH46      NUCLEAR REACTIONS <sup>128</sup>Te(<sup>48</sup>Ca, 4n), (<sup>48</sup>Ca, 5n), E=209 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>171,172</sup>Hf; deduced levels, J,  $\pi$ , configurations, superdeformed bands. <sup>163</sup>Lu, <sup>170,173,174,175</sup>Hf; systematics. JOUR PRVCA 76 064321

                2008TA03      NUCLEAR REACTIONS <sup>128</sup>Te(<sup>50</sup>Ti, 4n), E=230 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin; <sup>174</sup>W; deduced levels, J,  $\pi$ , band alignments, searched for triaxial strongly deformed bands. <sup>163,164,165,167</sup>Lu, <sup>174,175</sup>Hf; analyzed energy spacings. JOUR PRVCA 77 024313

**A=164**

<sup>164</sup>Eu      2007HA57      RADIOACTIVITY <sup>158,159</sup>Pm, <sup>159,161</sup>Sm, <sup>160,161,162,163,164,165</sup>Eu, <sup>163</sup>Gd, <sup>166</sup>Tb( $\beta^-$ ) [from <sup>238</sup>U(p, F), E=24 MeV and subsequent decay]; measured E $\gamma$ , I $\gamma$ , E $\beta$ , I $\beta$ ; deduced Q $\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363

**A=164 (*continued*)**

$^{164}\text{Gd}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=24 MeV and subsequent decay]; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\text{E}\beta$ , $\text{I}\beta$ ; deduced $\text{Q}\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{164}\text{Lu}$	2008TA03	NUCLEAR REACTIONS $^{128}\text{Te}(\text{p}, \text{n})$ , E=230 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin; $^{174}\text{W}$ ; deduced levels, J, $\pi$ , band alignments, searched for triaxial strongly deformed bands. $^{163,164,165,167}\text{Lu}$ , $^{174,175}\text{Hf}$ ; analyzed energy spacings. JOUR PRVCA 77 024313

**A=165**

$^{165}\text{Eu}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=24 MeV and subsequent decay]; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\text{E}\beta$ , $\text{I}\beta$ ; deduced $\text{Q}\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{165}\text{Gd}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=24 MeV and subsequent decay]; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\text{E}\beta$ , $\text{I}\beta$ ; deduced $\text{Q}\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{165}\text{Lu}$	2008TA03	NUCLEAR REACTIONS $^{128}\text{Te}(\text{p}, \text{n})$ , E=230 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\gamma\gamma$ -coin; $^{174}\text{W}$ ; deduced levels, J, $\pi$ , band alignments, searched for triaxial strongly deformed bands. $^{163,164,165,167}\text{Lu}$ , $^{174,175}\text{Hf}$ ; analyzed energy spacings. JOUR PRVCA 77 024313

**A=166**

$^{166}\text{Tb}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=24 MeV and subsequent decay]; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\text{E}\beta$ , $\text{I}\beta$ ; deduced $\text{Q}\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
	2008SI02	NUCLEAR REACTIONS $^{159}\text{Tb}(\text{p}, \text{n})$ , $(^{16}\text{O}, 3\text{n}\alpha)$ , $(^{16}\text{O}, 4\text{n}\alpha)$ , $(^{16}\text{O}, 3\text{n}\text{p}\alpha)$ , $(^{16}\text{O}, \text{n}2\alpha)$ , E=95 MeV; $^{159}\text{Tb}(\text{p}, \text{n}\text{p}\alpha)$ , $(^{16}\text{O}, \text{n}2\text{p}\alpha)$ , $(^{16}\text{O}, \text{n}3\text{p}\alpha)$ , $(^{16}\text{O}, 4\text{n}\alpha)$ , $(^{16}\text{O}, 2\text{n}\alpha)$ , E=95 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , production cross sections, excitation functions. $^{167,168}\text{Lu}$ , $^{167}\text{Yb}$ , $^{177}\text{W}$ , $^{166}\text{Tb}$ , $^{178}\text{Ta}$ , $^{177}\text{Hf}$ , $^{177,179}\text{Re}$ ; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607
$^{166}\text{Dy}$	2007HA57	RADIOACTIVITY $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160,161,162,163,164,165}\text{Eu}$ , $^{163}\text{Gd}$ , $^{166}\text{Tb}(\beta^-)$ [from $^{238}\text{U}(\text{p}, \text{F})$ , E=24 MeV and subsequent decay]; measured $\text{E}\gamma$ , $\text{I}\gamma$ , $\text{E}\beta$ , $\text{I}\beta$ ; deduced $\text{Q}\beta$ , mass excess and two-neutron separation energies. Mass separator. JOUR ZAANE 34 363
$^{166}\text{Tm}$	2008SI02	NUCLEAR REACTIONS $^{159}\text{Tb}(\text{p}, \text{n})$ , $(^{16}\text{O}, 3\text{n}\alpha)$ , $(^{16}\text{O}, 4\text{n}\alpha)$ , $(^{16}\text{O}, 3\text{n}\text{p}\alpha)$ , $(^{16}\text{O}, \text{n}2\alpha)$ , E=95 MeV; $^{159}\text{Tb}(\text{p}, \text{n}\text{p}\alpha)$ , $(^{16}\text{O}, \text{n}2\text{p}\alpha)$ , $(^{16}\text{O}, \text{n}3\text{p}\alpha)$ , $(^{16}\text{O}, 4\text{n}\alpha)$ , $(^{16}\text{O}, 2\text{n}\alpha)$ , E=95 MeV; measured $\text{E}\gamma$ , $\text{I}\gamma$ , production cross sections, excitation functions. $^{167,168}\text{Lu}$ , $^{167}\text{Yb}$ , $^{177}\text{W}$ , $^{166}\text{Tb}$ , $^{178}\text{Ta}$ , $^{177}\text{Hf}$ , $^{177,179}\text{Re}$ ; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607

**A=166 (*continued*)**

<sup>166</sup>Yb      2007MC08      RADIOACTIVITY <sup>168</sup>Ta ( $\beta^+$ ), (EC) [from <sup>159</sup>Tb(<sup>16</sup>O, 7n), E=130 MeV]; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ . <sup>168</sup>Hf; deduced levels, J,  $\pi$ , multipolarities, mixing ratios, B(E2). Compared with calculations using CBS and Davidson models and IBA model. <sup>166,168</sup>Yb; measured E $\gamma$ . JOUR PRVCA 76 064307

**A=167**

<sup>167</sup>Er      2008SI02      NUCLEAR REACTIONS <sup>159</sup>Tb(<sup>16</sup>O, 3n $\alpha$ ), (<sup>16</sup>O, 4n $\alpha$ ), (<sup>16</sup>O, 3np $\alpha$ ), (<sup>16</sup>O, n2 $\alpha$ ), E=95 MeV; <sup>159</sup>Tb(<sup>16</sup>O, 3np $\alpha$ ), (<sup>16</sup>O, n2p $\alpha$ ), (<sup>16</sup>O, n3p $\alpha$ ), (<sup>16</sup>O, 4n $\alpha$ ), (<sup>16</sup>O, 2n $\alpha$ ), E=95 MeV; measured E $\gamma$ , I $\gamma$ , production cross sections, excitation functions. <sup>167,168</sup>Lu, <sup>167</sup>Yb, <sup>177</sup>W, <sup>166</sup>Tb, <sup>178</sup>Ta, <sup>177</sup>Hf, <sup>177,179</sup>Re; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607

<sup>167</sup>Yb      2008SI02      NUCLEAR REACTIONS <sup>159</sup>Tb(<sup>16</sup>O, 3n $\alpha$ ), (<sup>16</sup>O, 4n $\alpha$ ), (<sup>16</sup>O, 3np $\alpha$ ), (<sup>16</sup>O, n2 $\alpha$ ), E=95 MeV; <sup>159</sup>Tb(<sup>16</sup>O, 3np $\alpha$ ), (<sup>16</sup>O, n2p $\alpha$ ), (<sup>16</sup>O, n3p $\alpha$ ), (<sup>16</sup>O, 4n $\alpha$ ), (<sup>16</sup>O, 2n $\alpha$ ), E=95 MeV; measured E $\gamma$ , I $\gamma$ , production cross sections, excitation functions. <sup>167,168</sup>Lu, <sup>167</sup>Yb, <sup>177</sup>W, <sup>166</sup>Tb, <sup>178</sup>Ta, <sup>177</sup>Hf, <sup>177,179</sup>Re; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607

<sup>167</sup>Lu      2008GU02      NUCLEAR REACTIONS <sup>123</sup>Sb(<sup>48</sup>Ca, 4n), E=203 MeV; measured E $\gamma$ , I $\gamma$ , conversion electrons; <sup>167</sup>Lu; deduced conversion coefficients. JOUR PRVCA 77 024314

              2008SI02      NUCLEAR REACTIONS <sup>159</sup>Tb(<sup>16</sup>O, 3n $\alpha$ ), (<sup>16</sup>O, 4n $\alpha$ ), (<sup>16</sup>O, 3np $\alpha$ ), (<sup>16</sup>O, n2 $\alpha$ ), E=95 MeV; <sup>159</sup>Tb(<sup>16</sup>O, 3np $\alpha$ ), (<sup>16</sup>O, n2p $\alpha$ ), (<sup>16</sup>O, n3p $\alpha$ ), (<sup>16</sup>O, 4n $\alpha$ ), (<sup>16</sup>O, 2n $\alpha$ ), E=95 MeV; measured E $\gamma$ , I $\gamma$ , production cross sections, excitation functions. <sup>167,168</sup>Lu, <sup>167</sup>Yb, <sup>177</sup>W, <sup>166</sup>Tb, <sup>178</sup>Ta, <sup>177</sup>Hf, <sup>177,179</sup>Re; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607

              2008TA03      NUCLEAR REACTIONS <sup>128</sup>Te(<sup>50</sup>Ti, 4n), E=230 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin; <sup>174</sup>W; deduced levels, J,  $\pi$ , band alignments, searched for triaxial strongly deformed bands. <sup>163,164,165,167</sup>Lu, <sup>174,175</sup>Hf; analyzed energy spacings. JOUR PRVCA 77 024313

**A=168**

<sup>168</sup>Tm      2008SI02      NUCLEAR REACTIONS <sup>159</sup>Tb(<sup>16</sup>O, 3n $\alpha$ ), (<sup>16</sup>O, 4n $\alpha$ ), (<sup>16</sup>O, 3np $\alpha$ ), (<sup>16</sup>O, n2 $\alpha$ ), E=95 MeV; <sup>159</sup>Tb(<sup>16</sup>O, 3np $\alpha$ ), (<sup>16</sup>O, n2p $\alpha$ ), (<sup>16</sup>O, n3p $\alpha$ ), (<sup>16</sup>O, 4n $\alpha$ ), (<sup>16</sup>O, 2n $\alpha$ ), E=95 MeV; measured E $\gamma$ , I $\gamma$ , production cross sections, excitation functions. <sup>167,168</sup>Lu, <sup>167</sup>Yb, <sup>177</sup>W, <sup>166</sup>Tb, <sup>178</sup>Ta, <sup>177</sup>Hf, <sup>177,179</sup>Re; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607

<sup>168</sup>Yb      2007MC08      RADIOACTIVITY <sup>168</sup>Ta ( $\beta^+$ ), (EC) [from <sup>159</sup>Tb(<sup>16</sup>O, 7n), E=130 MeV]; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin,  $\gamma\gamma(\theta)$ . <sup>168</sup>Hf; deduced levels, J,  $\pi$ , multipolarities, mixing ratios, B(E2). Compared with calculations using CBS and Davidson models and IBA model. <sup>166,168</sup>Yb; measured E $\gamma$ . JOUR PRVCA 76 064307

**A=168 (*continued*)**

<sup>168</sup> Lu	2008SI02	NUCLEAR REACTIONS <sup>159</sup> Tb( <sup>16</sup> O, 3n $\alpha$ ), ( <sup>16</sup> O, 4n $\alpha$ ), ( <sup>16</sup> O, 3np $\alpha$ ), ( <sup>16</sup> O, n2 $\alpha$ ), E=95 MeV; <sup>159</sup> Tb( <sup>16</sup> O, 3np $\alpha$ ), ( <sup>16</sup> O, n2p $\alpha$ ), ( <sup>16</sup> O, n3p $\alpha$ ), ( <sup>16</sup> O, 4n $\alpha$ ), ( <sup>16</sup> O, 2n $\alpha$ ), E=95 MeV; measured E $\gamma$ , I $\gamma$ , production cross sections, excitation functions. <sup>167,168</sup> Lu, <sup>167</sup> Yb, <sup>177</sup> W, <sup>166</sup> Tb, <sup>178</sup> Ta, <sup>177</sup> Hf, <sup>177,179</sup> Re; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607
<sup>168</sup> Hf	2007MC08	RADIOACTIVITY <sup>168</sup> Ta ( $\beta^+$ ), (EC) [from <sup>159</sup> Tb( <sup>16</sup> O, 7n), E=130 MeV]; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ . <sup>168</sup> Hf; deduced levels, J, $\pi$ , multipolarities, mixing ratios, B(E2). Compared with calculations using CBS and Davidson models and IBA model. <sup>166,168</sup> Yb; measured E $\gamma$ . JOUR PRVCA 76 064307
<sup>168</sup> Ta	2007MC08	RADIOACTIVITY <sup>168</sup> Ta ( $\beta^+$ ), (EC) [from <sup>159</sup> Tb( <sup>16</sup> O, 7n), E=130 MeV]; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ . <sup>168</sup> Hf; deduced levels, J, $\pi$ , multipolarities, mixing ratios, B(E2). Compared with calculations using CBS and Davidson models and IBA model. <sup>166,168</sup> Yb; measured E $\gamma$ . JOUR PRVCA 76 064307

**A=169**

<sup>169</sup> Lu	2008SI02	NUCLEAR REACTIONS <sup>159</sup> Tb( <sup>16</sup> O, 3n $\alpha$ ), ( <sup>16</sup> O, 4n $\alpha$ ), ( <sup>16</sup> O, 3np $\alpha$ ), ( <sup>16</sup> O, n2 $\alpha$ ), E=95 MeV; <sup>159</sup> Tb( <sup>16</sup> O, 3np $\alpha$ ), ( <sup>16</sup> O, n2p $\alpha$ ), ( <sup>16</sup> O, n3p $\alpha$ ), ( <sup>16</sup> O, 4n $\alpha$ ), ( <sup>16</sup> O, 2n $\alpha$ ), E=95 MeV; measured E $\gamma$ , I $\gamma$ , production cross sections, excitation functions. <sup>167,168</sup> Lu, <sup>167</sup> Yb, <sup>177</sup> W, <sup>166</sup> Tb, <sup>178</sup> Ta, <sup>177</sup> Hf, <sup>177,179</sup> Re; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607
-------------------	----------	--

**A=170**

<sup>170</sup> Hf	2007ZH46	NUCLEAR REACTIONS <sup>128</sup> Te( <sup>48</sup> Ca, 4n), ( <sup>48</sup> Ca, 5n), E=209 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>171,172</sup> Hf; deduced levels, J, $\pi$ , configurations, superdeformed bands. <sup>163</sup> Lu, <sup>170,173,174,175</sup> Hf; systematics. JOUR PRVCA 76 064321
-------------------	----------	---

**A=171**

<sup>171</sup> Hf	2007ZH46	NUCLEAR REACTIONS <sup>128</sup> Te( <sup>48</sup> Ca, 4n), ( <sup>48</sup> Ca, 5n), E=209 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin. <sup>171,172</sup> Hf; deduced levels, J, $\pi$ , configurations, superdeformed bands. <sup>163</sup> Lu, <sup>170,173,174,175</sup> Hf; systematics. JOUR PRVCA 76 064321
-------------------	----------	---

**A=172**

$^{172}\text{Hf}$  2007ZH46 NUCLEAR REACTIONS  $^{128}\text{Te}(^{48}\text{Ca}, 4n)$ ,  $(^{48}\text{Ca}, 5n)$ , E=209 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin.  $^{171,172}\text{Hf}$ ; deduced levels,  $J$ ,  $\pi$ , configurations, superdeformed bands.  $^{163}\text{Lu}$ ,  $^{170,173,174,175}\text{Hf}$ ; systematics. JOUR PRVCA 76 064321

**A=173**

$^{173}\text{Hf}$  2007ZH46 NUCLEAR REACTIONS  $^{128}\text{Te}(^{48}\text{Ca}, 4n)$ ,  $(^{48}\text{Ca}, 5n)$ , E=209 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin.  $^{171,172}\text{Hf}$ ; deduced levels,  $J$ ,  $\pi$ , configurations, superdeformed bands.  $^{163}\text{Lu}$ ,  $^{170,173,174,175}\text{Hf}$ ; systematics. JOUR PRVCA 76 064321

**A=174**

$^{174}\text{Lu}$  2007LU18 NUCLEAR REACTIONS  $^{175}\text{Lu}$ ,  $^{198}\text{Pt}$ ,  $^{82}\text{Se}(n, 2n)$ , E=13.5-14.6 MeV; measured  $E\gamma$ ,  $I\gamma$ ; deduced cross sections, isomeric cross section ratios.  $^{93}\text{Nb}(n, 2n)$ , E=13.5-14.6 MeV; compared cross sections. Comparisons with nuclear model calculations using the HFTT code. JOUR NIMBE 265 453

$^{174}\text{Hf}$  2007ZH46 NUCLEAR REACTIONS  $^{128}\text{Te}(^{48}\text{Ca}, 4n)$ ,  $(^{48}\text{Ca}, 5n)$ , E=209 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin.  $^{171,172}\text{Hf}$ ; deduced levels,  $J$ ,  $\pi$ , configurations, superdeformed bands.  $^{163}\text{Lu}$ ,  $^{170,173,174,175}\text{Hf}$ ; systematics. JOUR PRVCA 76 064321

2008TA03 NUCLEAR REACTIONS  $^{128}\text{Te}(^{50}\text{Ti}, 4n)$ , E=230 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin;  $^{174}\text{W}$ ; deduced levels,  $J$ ,  $\pi$ , band alignments, searched for triaxial strongly deformed bands.  $^{163,164,165,167}\text{Lu}$ ,  $^{174,175}\text{Hf}$ ; analyzed energy spacings. JOUR PRVCA 77 024313

$^{174}\text{W}$  2008TA03 NUCLEAR REACTIONS  $^{128}\text{Te}(^{50}\text{Ti}, 4n)$ , E=230 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin;  $^{174}\text{W}$ ; deduced levels,  $J$ ,  $\pi$ , band alignments, searched for triaxial strongly deformed bands.  $^{163,164,165,167}\text{Lu}$ ,  $^{174,175}\text{Hf}$ ; analyzed energy spacings. JOUR PRVCA 77 024313

**A=175**

$^{175}\text{Hf}$  2007ZH46 NUCLEAR REACTIONS  $^{128}\text{Te}(^{48}\text{Ca}, 4n)$ ,  $(^{48}\text{Ca}, 5n)$ , E=209 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin.  $^{171,172}\text{Hf}$ ; deduced levels,  $J$ ,  $\pi$ , configurations, superdeformed bands.  $^{163}\text{Lu}$ ,  $^{170,173,174,175}\text{Hf}$ ; systematics. JOUR PRVCA 76 064321

2008TA03 NUCLEAR REACTIONS  $^{128}\text{Te}(^{50}\text{Ti}, 4n)$ , E=230 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin;  $^{174}\text{W}$ ; deduced levels,  $J$ ,  $\pi$ , band alignments, searched for triaxial strongly deformed bands.  $^{163,164,165,167}\text{Lu}$ ,  $^{174,175}\text{Hf}$ ; analyzed energy spacings. JOUR PRVCA 77 024313

**A=176**

No references found

**A=177**

$^{177}\text{Lu}$	2008DV01	NUCLEAR REACTIONS $^{176}\text{Lu}(\text{n}, \gamma)^{177}\text{Lu}$ , E=thermal; measured $E\gamma$ , $I\gamma$ . deduced reactor neutron spectrum, and irradiation yield of $^{177}\text{Lu}$ using the Westcott convention. Calculated k-factor, comparisons of Westcott, Hogdahl, and experimental irradiation yield of $^{177}\text{Lu}$ . JOUR ARISE 66 147
$^{177}\text{Hf}$	2008SI02	NUCLEAR REACTIONS $^{159}\text{Tb}({}^{16}\text{O}, 3n\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2\alpha)$ , E=95 MeV; $^{159}\text{Tb}({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2p\alpha)$ , $({}^{16}\text{O}, n3p\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 2n\alpha)$ , E=95 MeV; measured $E\gamma$ , $I\gamma$ , production cross sections, excitation functions. $^{167,168}\text{Lu}$ , $^{167}\text{Yb}$ , $^{177}\text{W}$ , $^{166}\text{Tb}$ , $^{178}\text{Ta}$ , $^{177}\text{Hf}$ , $^{177,179}\text{Re}$ ; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607
$^{177}\text{W}$	2008SI02	NUCLEAR REACTIONS $^{159}\text{Tb}({}^{16}\text{O}, 3n\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2\alpha)$ , E=95 MeV; $^{159}\text{Tb}({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2p\alpha)$ , $({}^{16}\text{O}, n3p\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 2n\alpha)$ , E=95 MeV; measured $E\gamma$ , $I\gamma$ , production cross sections, excitation functions. $^{167,168}\text{Lu}$ , $^{167}\text{Yb}$ , $^{177}\text{W}$ , $^{166}\text{Tb}$ , $^{178}\text{Ta}$ , $^{177}\text{Hf}$ , $^{177,179}\text{Re}$ ; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607
$^{177}\text{Re}$	2008SI02	NUCLEAR REACTIONS $^{159}\text{Tb}({}^{16}\text{O}, 3n\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2\alpha)$ , E=95 MeV; $^{159}\text{Tb}({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2p\alpha)$ , $({}^{16}\text{O}, n3p\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 2n\alpha)$ , E=95 MeV; measured $E\gamma$ , $I\gamma$ , production cross sections, excitation functions. $^{167,168}\text{Lu}$ , $^{167}\text{Yb}$ , $^{177}\text{W}$ , $^{166}\text{Tb}$ , $^{178}\text{Ta}$ , $^{177}\text{Hf}$ , $^{177,179}\text{Re}$ ; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607

**A=178**

$^{178}\text{Ta}$	2008SI02	NUCLEAR REACTIONS $^{159}\text{Tb}({}^{16}\text{O}, 3n\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2\alpha)$ , E=95 MeV; $^{159}\text{Tb}({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2p\alpha)$ , $({}^{16}\text{O}, n3p\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 2n\alpha)$ , E=95 MeV; measured $E\gamma$ , $I\gamma$ , production cross sections, excitation functions. $^{167,168}\text{Lu}$ , $^{167}\text{Yb}$ , $^{177}\text{W}$ , $^{166}\text{Tb}$ , $^{178}\text{Ta}$ , $^{177}\text{Hf}$ , $^{177,179}\text{Re}$ ; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607
-------------------	----------	--

**A=179**

$^{179}\text{Re}$	2008SI02	NUCLEAR REACTIONS $^{159}\text{Tb}({}^{16}\text{O}, 3n\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2\alpha)$ , E=95 MeV; $^{159}\text{Tb}({}^{16}\text{O}, 3np\alpha)$ , $({}^{16}\text{O}, n2p\alpha)$ , $({}^{16}\text{O}, n3p\alpha)$ , $({}^{16}\text{O}, 4n\alpha)$ , $({}^{16}\text{O}, 2n\alpha)$ , E=95 MeV; measured $E\gamma$ , $I\gamma$ , production cross sections, excitation functions. $^{167,168}\text{Lu}$ , $^{167}\text{Yb}$ , $^{177}\text{W}$ , $^{166}\text{Tb}$ , $^{178}\text{Ta}$ , $^{177}\text{Hf}$ , $^{177,179}\text{Re}$ ; measured excitation functions in fusion reactions. JOUR PRVCA 77 014607
-------------------	----------	--

**A=180**

$^{180}\text{Hf}$	2008NG01	NUCLEAR REACTIONS $^{179,180}\text{Hf}(n, \gamma)$ , E=thermal; measured $E\gamma$ , $I\gamma$ , cross sections, and resonance integrals using the stacked foil activation technique. JOUR NIMBE 266 21
	2008ZA01	RADIOACTIVITY $^{180}\text{Hf}(\text{IT})$ ; measured $E\gamma$ , $I\gamma$ as a function of temperature and nuclear orientation. Deduced assymetry of the isomeric transition, parity mixing. JOUR APOBB 39 411
$^{180}\text{W}$	2007KA62	NUCLEAR REACTIONS $\text{W}(n, \gamma)$ , E=thermal; measured $E\gamma$ , $I\gamma$ . $^{180,181,185,187}\text{W}$ ; measured capture cross sections. JOUR PRVCA 76 067602

**A=181**

$^{181}\text{Hf}$	2008NG01	NUCLEAR REACTIONS $^{179,180}\text{Hf}(n, \gamma)$ , E=thermal; measured $E\gamma$ , $I\gamma$ , cross sections, and resonance integrals using the stacked foil activation technique. JOUR NIMBE 266 21
$^{181}\text{W}$	2007KA62	NUCLEAR REACTIONS $\text{W}(n, \gamma)$ , E=thermal; measured $E\gamma$ , $I\gamma$ . $^{180,181,185,187}\text{W}$ ; measured capture cross sections. JOUR PRVCA 76 067602

**A=182**

No references found

**A=183**

No references found

**A=184**

No references found

**A=185**

$^{185}\text{W}$	2007KA62	NUCLEAR REACTIONS $\text{W}(n, \gamma)$ , E=thermal; measured $E\gamma$ , $I\gamma$ . $^{180,181,185,187}\text{W}$ ; measured capture cross sections. JOUR PRVCA 76 067602
------------------	----------	--

**A=186**

$^{186}\text{Pb}$	2007WI11	RADIOACTIVITY $^{190,197}\text{Po}(\alpha)$ ; measured $E\alpha$ . JOUR ZAANE 34 275
-------------------	----------	--

**A=186 (*continued*)**

2008GR04 NUCLEAR REACTIONS  $^{106,108}\text{Pd}$ ,  $^{114}\text{Cd}(^{83}\text{Kr}, 3n)$ , E=340, 357, 375 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -, (recoil) $\gamma$ -coin and lifetimes for intruder states using the recoil distance Doppler-shift method.  $^{186,188}\text{Pb}$ ,  $^{194}\text{Po}$ ; deduced  $B(E2)$ , quadrupole moment and deformation parameters. JUROGAM array used with RITU, GREAT spectrometer. Recoil-decay tagging. JOUR NUPAB 801 83

**A=187**

$^{187}\text{W}$  2007KA62 NUCLEAR REACTIONS  $\text{W}(n, \gamma)$ , E=thermal; measured  $E\gamma$ ,  $I\gamma$ .  $^{180,181,185,187}\text{W}$ ; measured capture cross sections. JOUR PRVCA 76 067602

**A=188**

$^{188}\text{Ir}$  2008JU02 NUCLEAR REACTIONS  $^{186}\text{W}(^7\text{Li}, 5n\gamma)$ , E=59 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin.  $^{188}\text{Ir}$ ; deduced levels,  $J$ ,  $\pi$ , deformation parameters. JOUR PRVCA 77 024310

$^{188}\text{Pb}$  2008GR04 NUCLEAR REACTIONS  $^{106,108}\text{Pd}$ ,  $^{114}\text{Cd}(^{83}\text{Kr}, 3n)$ , E=340, 357, 375 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -, (recoil) $\gamma$ -coin and lifetimes for intruder states using the recoil distance Doppler-shift method.  $^{186,188}\text{Pb}$ ,  $^{194}\text{Po}$ ; deduced  $B(E2)$ , quadrupole moment and deformation parameters. JUROGAM array used with RITU, GREAT spectrometer. Recoil-decay tagging. JOUR NUPAB 801 83

**A=189**

No references found

**A=190**

$^{190}\text{Po}$  2007WI11 NUCLEAR REACTIONS  $^{144}\text{Sm}(^{49}\text{Ti}, 3n)$ , E=222 MeV; measured  $E\gamma$ ,  $I\gamma$ , recoil decay tagging,  $\gamma\gamma$ -,  $\alpha\gamma$ -coin.  $^{190,197}\text{Po}$  deduced levels,  $J$ ,  $\pi$ , bands. JUROGAM array used with RITU, GREAT spectrometer. JOUR ZAANE 34 275

2007WI11 RADIOACTIVITY  $^{190,197}\text{Po}(\alpha)$ ; measured  $E\alpha$ . JOUR ZAANE 34 275

**A=191**

No references found

**A=192**

No references found

**A=193**

$^{193}\text{Pt}$	2008HI03	NUCLEAR REACTIONS $^{192}\text{Os}(\alpha, n)$ , $(\alpha, 3n)$ , E < 28 MeV; measured $E\gamma$ , $I\gamma$ , cross sections using stacked foil activation. JOUR ARISE 66 545
$^{193}\text{Pb}$	2007WI11	RADIOACTIVITY $^{190,197}\text{Po}(\alpha)$ ; measured $E\alpha$ . JOUR ZAANE 34 275

**A=194**

$^{194}\text{Po}$	2008GR04	NUCLEAR REACTIONS $^{106,108}\text{Pd}$ , $^{114}\text{Cd}(^{83}\text{Kr}, 3n)$ , E=340, 357, 375 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, (recoil) $\gamma$ -coin and lifetimes for intruder states using the recoil distance Doppler-shift method. $^{186,188}\text{Pb}$ , $^{194}\text{Po}$ ; deduced $B(E2)$ , quadrupole moment and deformation parameters. JUROGAM array used with RITU, GREAT spectrometer. Recoil-decay tagging. JOUR NUPAB 801 83
-------------------	----------	---

**A=195**

$^{195}\text{Pt}$	2008HI03	NUCLEAR REACTIONS $^{192}\text{Os}(\alpha, n)$ , $(\alpha, 3n)$ , E < 28 MeV; measured $E\gamma$ , $I\gamma$ , cross sections using stacked foil activation. JOUR ARISE 66 545
-------------------	----------	--

**A=196**

$^{196}\text{Tl}$	2008F003	NUCLEAR REACTIONS $^{205}\text{Tl}(n, 2n\gamma)$ , E<25 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, half-lives; $^{204}\text{Tl}$ ; deduced levels, $J$ , $\pi$ , configurations. $^{196,198,200,202,206}\text{Tl}$ ; systematics. JOUR PRVCA 77 024306
-------------------	----------	---

**A=197**

$^{197}\text{Pt}$	2007CL04	NUCLEAR REACTIONS $^2\text{H}$ , $^{12}\text{C}$ , $^{27}\text{Al}$ , $^{63}\text{Cu}$ , $^{197}\text{Au}(e, e'\pi^+)$ , E=4.021-5.767 GeV; measured electron and pion energies. Deduced nuclear transparency. JOUR PRLTA 99 242502
	2007LU18	NUCLEAR REACTIONS $^{175}\text{Lu}$ , $^{198}\text{Pt}$ , $^{82}\text{Se}(n, 2n)$ , E=13.5-14.6 MeV; measured $E\gamma$ , $I\gamma$ ; deduced cross sections, isomeric cross section ratios. $^{93}\text{Nb}(n, 2n)$ , E=13.5-14.6 MeV; compared cross sections. Comparisons with nuclear model calculations using the HFTT code. JOUR NIMBE 265 453
$^{197}\text{Po}$	2007WI11	NUCLEAR REACTIONS $^{144}\text{Sm}(^{49}\text{Ti}, 3n)$ , E=222 MeV; measured $E\gamma$ , $I\gamma$ , recoil decay tagging, $\gamma\gamma$ -, $\alpha\gamma$ -coin. $^{190,197}\text{Po}$ deduced levels, $J$ , $\pi$ , bands. JUROGAM array used with RITU, GREAT spectrometer. JOUR ZAANE 34 275

**A=197 (continued)**2007WI11      RADIOACTIVITY  $^{190,197}\text{Po}(\alpha)$ ; measured E $\alpha$ . JOUR ZAANE 34 275**A=198**

$^{198}\text{Au}$	2007G039	RADIOACTIVITY $^{198}\text{Au}(\beta^-)$ ; measured E $\gamma$ , I $\gamma$ , T $_{1/2}$ . Temperature dependence not observed. JOUR ZAANE 34 271
	2008HE01	NUCLEAR REACTIONS $^{58}\text{Fe}$ , $^{59}\text{Co}$ , $^{64}\text{Ni}$ , $^{63,65}\text{Cu}(n, \gamma)$ , E=25 keV; measured neutron capture cross sections, E $\gamma$ ; $^{59}\text{Fe}$ , $^{60}\text{Co}$ , $^{65}\text{Ni}$ , $^{64,66}\text{Cu}$ , $^{198}\text{Au}$ ; deduced nucleosynthesis yields in stars. JOUR PRVCA 77 015808
$^{198}\text{Hg}$	2007G039	RADIOACTIVITY $^{198}\text{Au}(\beta^-)$ ; measured E $\gamma$ , I $\gamma$ , T $_{1/2}$ . Temperature dependence not observed. JOUR ZAANE 34 271
$^{198}\text{Tl}$	2008F003	NUCLEAR REACTIONS $^{205}\text{Tl}(n, 2n\gamma)$ , E<25 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, half-lives; $^{204}\text{Tl}$ ; deduced levels, J, $\pi$ , configurations. $^{196,198,200,202,206}\text{Tl}$ ; systematics. JOUR PRVCA 77 024306

**A=199**

No references found

**A=200**

$^{200}\text{Tl}$	2008F003	NUCLEAR REACTIONS $^{205}\text{Tl}(n, 2n\gamma)$ , E<25 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, half-lives; $^{204}\text{Tl}$ ; deduced levels, J, $\pi$ , configurations. $^{196,198,200,202,206}\text{Tl}$ ; systematics. JOUR PRVCA 77 024306
-------------------	----------	--

**A=201**

No references found

**A=202**

$^{202}\text{Tl}$	2008F003	NUCLEAR REACTIONS $^{205}\text{Tl}(n, 2n\gamma)$ , E<25 MeV; measured E $\gamma$ , I $\gamma$ , $\gamma\gamma$ -coin, half-lives; $^{204}\text{Tl}$ ; deduced levels, J, $\pi$ , configurations. $^{196,198,200,202,206}\text{Tl}$ ; systematics. JOUR PRVCA 77 024306
$^{202}\text{Po}$	2008RA07	NUCLEAR REACTIONS $^{186}\text{Os}(^{16}\text{O}, X)^{202}\text{Po}$ , E=74-105 MeV; $^{178}\text{Hf}(^{24}\text{Mg}, X)^{202}\text{Po}$ , E=106-144 MeV; $^{168}\text{Er}(^{34}\text{S}, X)^{202}\text{Po}$ , E=141-174 MeV; $^{154}\text{Sm}(^{48}\text{Ti}, X)^{202}\text{Po}$ , E=198-235 MeV; measured mass-angle correlations, mass ratio distributions, cross sections. JOUR PRVCA 77 024606

**A=203**

No references found

**A=204**

$^{204}\text{Pt}$	2007P013	RADIOACTIVITY $^{147}\text{Gd}$ , $^{148}\text{Tb}$ , $^{204}\text{Pt}(\text{IT})$ ; measured delayed $E\gamma$ , $I\gamma$ from isomer decays. JOUR ZSTNE 150 165
$^{204}\text{Tl}$	2008F003	NUCLEAR REACTIONS $^{205}\text{Tl}(n, 2n\gamma)$ , $E < 25$ MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, half-lives; $^{204}\text{Tl}$ ; deduced levels, $J$ , $\pi$ , configurations. $^{196,198,200,202,206}\text{Tl}$ ; systematics. JOUR PRVCA 77 024306

**A=205**

No references found

**A=206**

$^{206}\text{Tl}$	2008F003	NUCLEAR REACTIONS $^{205}\text{Tl}(n, 2n\gamma)$ , $E < 25$ MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, half-lives; $^{204}\text{Tl}$ ; deduced levels, $J$ , $\pi$ , configurations. $^{196,198,200,202,206}\text{Tl}$ ; systematics. JOUR PRVCA 77 024306
$^{206}\text{Rn}$	2008AN01	NUCLEAR REACTIONS $^{197}\text{Au}(^{14}\text{N}, 5n)$ , $E = 82$ MeV; measured $E\gamma$ , $I\gamma$ , conversion electrons. $^{206}\text{Rn}$ ; deduced level energies, ICCs, transition multipolarities. JOUR NIMAE 585 155
	2008KR01	NUCLEAR REACTIONS $^{197}\text{Au}(^{14}\text{N}, 5n)$ , $E = 80$ MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, conversion electron spectra using in-beam spectroscopy. $^{206}\text{Rn}$ ; deduced levels, $J$ , $\pi$ . JOUR APOBB 39 495

**A=207**

No references found

**A=208**

$^{208}\text{Pb}$	2007BA76	NUCLEAR REACTIONS $^{208}\text{Pb}(^{17}\text{F}, ^{17}\text{F})$ , $E = 141$ MeV; $^{208}\text{Pb}(^{17}\text{O}, ^{17}\text{O})$ , $E = 128$ MeV; measured differential cross sections, angular dispersion plots. $^{208}\text{Pb}(^{16}\text{O}, ^{16}\text{O})$ , $E = 170.1$ MeV; $^{208}\text{Pb}(^6\text{He}, ^6\text{He})$ , $E = 27, 29.6$ MeV; $^{208}\text{Pb}(^6\text{Li}, ^6\text{Li})$ , $E = 73.7, 99$ MeV; $^{208}\text{Pb}(\alpha, \alpha)$ , $E = 40$ MeV; analyzed differential cross sections, angular dispersion plots. JOUR CPLEE 24 3384
	20080H02	NUCLEAR REACTIONS $^{56}\text{Fe}$ , $^{89}\text{Y}$ , $^{208}\text{Pb}(n, n)$ , $E = 96$ MeV; measured $\sigma(\theta)$ ; $^{12}\text{C}$ , $^{16}\text{O}$ ; systematics, compared with Wick's limit. JOUR PRVCA 77 024605
	2008ZI01	NUCLEAR REACTIONS $^{109}\text{Ag}$ , $^{208}\text{Pb}(^{44}\text{Ar}, ^{44}\text{Ar}')$ , $E = 2.7, 3.7$ MeV / nucleon; measured $E\gamma$ , $I\gamma$ , (charged-particle) $\gamma$ -coin. Deduced coulomb excitation $\sigma(\theta)$ , $B(E2)$ . JOUR APOBB 39 519

**A=208 (*continued*)**

$^{208}\text{Bi}$	2007MA83	NUCLEAR REACTIONS $^{208}\text{Pb}(\text{p}, \text{n})$ , E=9 MeV; measured ce, (ce)(ce)-, $\gamma$ (ce)-coin; analyzed $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{208}\text{Bi}$ ; deduced levels, J, $\pi$ , multipolarities, configurations, angular momenta, spectroscopic factors for proton transfer and neutron pickup. Detailed shell-model calculations. JOUR PRVCA 76 064304
	2007MAZR	NUCLEAR REACTIONS $^{208}\text{Pb}(\text{p}, \text{n})$ , E=9.0 MeV; measured $E\gamma$ , $I\gamma$ , conversion electrons. $^{208}\text{Bi}$ ; deduced internal conversion coefficients. PREPRINT ANU-P/1815,Maier
	2008MI01	NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, \text{n}'\gamma)$ , $(\text{n}, 2\text{n}\gamma)$ , E=threshold - 20 MeV; measured, $E\gamma$ , $I\gamma$ , En, In, $\sigma$ , $\sigma(\theta)$ . $^{209}\text{Bi}$ deduced level energies, branching ratios. Comparison with existing data and TALYS calculations. JOUR NUPAB 799 1

**A=209**

$^{209}\text{Pb}$	2007G042	NUCLEAR REACTIONS $^{209}\text{Pb}(^{74}\text{Kr}, ^{74}\text{Kr}')$ , $(^{76}\text{Kr}, ^{76}\text{Kr}')$ , E=4.7 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin, angular distributions. $^{74,76}\text{Kr}$ ; deduced B(E2), static quadrupole moments, shape coexistence. JOUR ZSTNE 150 117
$^{209}\text{Bi}$	2007MA90	NUCLEAR REACTIONS $^{209}\text{Bi}(^{11}\text{Be}, ^{11}\text{Be})$ , E=38-50 MeV; measured elastic scattering $\sigma(\theta)$ . Compared results to model calculations. Deduced reaction and fusion cross sections. JOUR ZSTNE 150 37
	2008MI01	NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, \text{n}'\gamma)$ , $(\text{n}, 2\text{n}\gamma)$ , E=threshold - 20 MeV; measured, $E\gamma$ , $I\gamma$ , En, In, $\sigma$ , $\sigma(\theta)$ . $^{209}\text{Bi}$ deduced level energies, branching ratios. Comparison with existing data and TALYS calculations. JOUR NUPAB 799 1

**A=210**

No references found

**A=211**

No references found

**A=212**

$^{212}\text{At}$	2007KU30	RADIOACTIVITY $^{220}\text{Ac}$ , $^{216}\text{Fr}$ , $^{212}\text{At}$ ( $\alpha$ ) [from $^{209}\text{Bi}(^{14}\text{N}, \text{F})$ , E=5.6 MeV / nucleon]; measured $\alpha$ -spectra. $^{212}\text{At}$ , $^{216}\text{Fr}$ ; deduced levels, J, $\pi$ , half-lives. $^{216}\text{Fr}$ ; deduced Ea, Q $\alpha$ , excitation energies, mass excess. JOUR PRVCA 76 054320
-------------------	----------	--

**A=213**

$^{213}\text{Th}$  2007KH22 NUCLEAR REACTIONS  $^{164}\text{Dy}(^{54}\text{Cr}, \text{X})^{213}\text{Th} / ^{214}\text{Th}$ , E=246, 258 MeV; measured  $\sigma$ ,  $E\gamma$ ,  $I\gamma$ ,  $\alpha\gamma$ -coin following residual nucleus decay.  $^{213,214}\text{Th}$  deduced levels, J,  $\pi$ ,  $T_{1/2}$ . JOUR ZAANE 34 355

**A=214**

$^{214}\text{Th}$  2007KH22 NUCLEAR REACTIONS  $^{164}\text{Dy}(^{54}\text{Cr}, \text{X})^{213}\text{Th} / ^{214}\text{Th}$ , E=246, 258 MeV; measured  $\sigma$ ,  $E\gamma$ ,  $I\gamma$ ,  $\alpha\gamma$ -coin following residual nucleus decay.  $^{213,214}\text{Th}$  deduced levels, J,  $\pi$ ,  $T_{1/2}$ . JOUR ZAANE 34 355

**A=215**

No references found

**A=216**

$^{216}\text{Fr}$  2007KU30 RADIOACTIVITY  $^{220}\text{Ac}$ ,  $^{216}\text{Fr}$ ,  $^{212}\text{At}$  ( $\alpha$ ) [from  $^{209}\text{Bi}(^{14}\text{N}, \text{F})$ , E=5.6 MeV / nucleon]; measured  $\alpha$ -spectra.  $^{212}\text{At}$ ,  $^{216}\text{Fr}$ ; deduced levels, J,  $\pi$ , half-lives.  $^{216}\text{Fr}$ ; deduced  $E\alpha$ ,  $Q\alpha$ , excitation energies, mass excess. JOUR PRVCA 76 054320

**A=217**

No references found

**A=218**

No references found

**A=219**

No references found

**A=220**

$^{220}\text{Ac}$  2007KU30 RADIOACTIVITY  $^{220}\text{Ac}$ ,  $^{216}\text{Fr}$ ,  $^{212}\text{At}$  ( $\alpha$ ) [from  $^{209}\text{Bi}(^{14}\text{N}, \text{F})$ , E=5.6 MeV / nucleon]; measured  $\alpha$ -spectra.  $^{212}\text{At}$ ,  $^{216}\text{Fr}$ ; deduced levels, J,  $\pi$ , half-lives.  $^{216}\text{Fr}$ ; deduced  $E\alpha$ ,  $Q\alpha$ , excitation energies, mass excess. JOUR PRVCA 76 054320

**A=221**

No references found

**A=222**

No references found

**A=223**

No references found

**A=224**

No references found

**A=225**

No references found

**A=226**

No references found

**A=227**

No references found

**A=228**

No references found

**A=229**

No references found

**A=230**

No references found

**A=231**

$^{231}\text{Ra}$	2007B048	RADIOACTIVITY $^{231}\text{Ra}(\beta^-)$ [from $\text{U}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ ]; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, conversion electrons. $^{231}\text{Ac}$ ; deduced level energies, lifetimes. JOUR ZSTNE 150 87
$^{231}\text{Ac}$	2007B048	RADIOACTIVITY $^{231}\text{Ra}(\beta^-)$ [from $\text{U}(\text{p}, \text{X})$ , $E=1 \text{ GeV}$ ]; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin, conversion electrons. $^{231}\text{Ac}$ ; deduced level energies, lifetimes. JOUR ZSTNE 150 87
$^{231}\text{Th}$	2008WE01	RADIOACTIVITY $^{238,235}\text{U}(\alpha)$ ; measured isotopic ratios in natural samples. JOUR GCACA 72 345

**A=232**

No references found

**A=233**

No references found

**A=234**

$^{234}\text{Th}$	2008WE01	RADIOACTIVITY $^{238,235}\text{U}(\alpha)$ ; measured isotopic ratios in natural samples. JOUR GCACA 72 345
-------------------	----------	---

**A=235**

$^{235}\text{U}$	2008WE01	RADIOACTIVITY $^{238,235}\text{U}(\alpha)$ ; measured isotopic ratios in natural samples. JOUR GCACA 72 345
------------------	----------	---

**A=236**

No references found

**A=237**

$^{237}\text{Np}$	2008SA02	RADIOACTIVITY $^{237}\text{Np}(\text{SF})$ [from $^{236}\text{U}(\text{n}, \gamma)^{237}\text{U}(\beta^-)$ , $^{238}\text{U}(\text{n}, 2\text{n})^{237}\text{U}(\beta^-)$ ]; measured criticality conditions. JOUR NSENA 158 1
-------------------	----------	--

**A=238**

$^{238}\text{U}$	2008WE01	RADIOACTIVITY $^{238,235}\text{U}(\alpha)$ ; measured isotopic ratios in natural samples. JOUR GCACA 72 345
------------------	----------	---

**A=239**

No references found

**A=240**

No references found

**A=241**

No references found

**A=242**

$^{242}\text{Am}$  2007NA33 NUCLEAR REACTIONS  $^{241}\text{Am}(\text{n}, \gamma)$ , E=thermal; measured decay  $\text{E}\alpha$ ,  $\text{I}\alpha$ , cross section and resonance integral for thermal neutron capture leading to ground state using the activation method. JOUR JNSTA 44 1500

**A=243**

No references found

**A=244**

No references found

**A=245**

$^{245}\text{Pu}$  2007MA82 NUCLEAR REACTIONS  $^{244}\text{Pu}(^{18}\text{O}, ^{17}\text{O})$ ,  $(^{18}\text{O}, ^{16}\text{O})$ , E=162 MeV; measured  $\text{E}\gamma$ ,  $\text{I}\gamma$ ,  $\gamma\gamma$ -coin, half-lives.  $^{245,246}\text{Pu}$ ; deduced levels,  $J$ ,  $\pi$ , configurations. Compared with experimental and calculated values for the first  $2^+$  level energy in  $^{232,234,236,238,240,242}\text{U}$ ,  $^{234,236,238,240,242,244,248}\text{Pu}$ ,  $^{240,242,244,246,248,250}\text{Cm}$ ,  $^{244,246,248,250,252,254}\text{Cf}$ ,  $^{250,252,254,256}\text{Fm}$ ,  $^{248,250,252,254,256,258}\text{No}$ .  $^{247}\text{Cm}$ ,  $^{249}\text{Cf}$ ,  $^{251}\text{Fm}$ ,  $^{253}\text{No}$ ; systematics. JOUR PRVCA 76 061301

**A=246**

<sup>246</sup>Pu      2007MA82      NUCLEAR REACTIONS <sup>244</sup>Pu(<sup>18</sup>O, <sup>17</sup>O), (<sup>18</sup>O, <sup>16</sup>O), E=162 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin, half-lives. <sup>245,246</sup>Pu; deduced levels, J,  $\pi$ , configurations. Compared with experimental and calculated values for the first 2<sup>+</sup> level energy in <sup>232,234,236,238,240,242</sup>U, <sup>234,236,238,240,242,244,248</sup>Pu, <sup>240,242,244,246,248,250</sup>Cm, <sup>244,246,248,250,252,254</sup>Cf, <sup>250,252,254,256</sup>Fm, <sup>248,250,252,254,256,258</sup>No. <sup>247</sup>Cm, <sup>249</sup>Cf, <sup>251</sup>Fm, <sup>253</sup>No; systematics. JOUR PRVCA 76 061301

**A=247**

<sup>247</sup>Cm      2007MA82      NUCLEAR REACTIONS <sup>244</sup>Pu(<sup>18</sup>O, <sup>17</sup>O), (<sup>18</sup>O, <sup>16</sup>O), E=162 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin, half-lives. <sup>245,246</sup>Pu; deduced levels, J,  $\pi$ , configurations. Compared with experimental and calculated values for the first 2<sup>+</sup> level energy in <sup>232,234,236,238,240,242</sup>U, <sup>234,236,238,240,242,244,248</sup>Pu, <sup>240,242,244,246,248,250</sup>Cm, <sup>244,246,248,250,252,254</sup>Cf, <sup>250,252,254,256</sup>Fm, <sup>248,250,252,254,256,258</sup>No. <sup>247</sup>Cm, <sup>249</sup>Cf, <sup>251</sup>Fm, <sup>253</sup>No; systematics. JOUR PRVCA 76 061301

**A=248**

No references found

**A=249**

<sup>249</sup>Cf      2007MA82      NUCLEAR REACTIONS <sup>244</sup>Pu(<sup>18</sup>O, <sup>17</sup>O), (<sup>18</sup>O, <sup>16</sup>O), E=162 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin, half-lives. <sup>245,246</sup>Pu; deduced levels, J,  $\pi$ , configurations. Compared with experimental and calculated values for the first 2<sup>+</sup> level energy in <sup>232,234,236,238,240,242</sup>U, <sup>234,236,238,240,242,244,248</sup>Pu, <sup>240,242,244,246,248,250</sup>Cm, <sup>244,246,248,250,252,254</sup>Cf, <sup>250,252,254,256</sup>Fm, <sup>248,250,252,254,256,258</sup>No. <sup>247</sup>Cm, <sup>249</sup>Cf, <sup>251</sup>Fm, <sup>253</sup>No; systematics. JOUR PRVCA 76 061301

**A=250**

<sup>250</sup>No      2008KN01      NUCLEAR REACTIONS <sup>206</sup>Pb(<sup>44</sup>Ca, X), E=217, 227 MeV; <sup>186</sup>W(<sup>64</sup>Ni, X), E=300, 311 MeV; measured mass-energy distributions of binary fragments,  $\sigma(\theta)$  for fissionlike fragments. <sup>250</sup>No; deduced influence of mass assymetry of the entrance channel in compound nucleus formation. JOUR PPNLA 5 21

**A=251**

$^{251}\text{Fm}$  2007MA82 NUCLEAR REACTIONS  $^{244}\text{Pu}(^{18}\text{O}, ^{17}\text{O})$ ,  $(^{18}\text{O}, ^{16}\text{O})$ , E=162 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin, half-lives.  $^{245,246}\text{Pu}$ ; deduced levels, J,  $\pi$ , configurations. Compared with experimental and calculated values for the first  $2^+$  level energy in  $^{232,234,236,238,240,242}\text{U}$ ,  $^{234,236,238,240,242,244,248}\text{Pu}$ ,  $^{240,242,244,246,248,250}\text{Cm}$ ,  $^{244,246,248,250,252,254}\text{Cf}$ ,  $^{250,252,254,256}\text{Fm}$ ,  $^{248,250,252,254,256,258}\text{No}$ .  $^{247}\text{Cm}$ ,  $^{249}\text{Cf}$ ,  $^{251}\text{Fm}$ ,  $^{253}\text{No}$ ; systematics. JOUR PRVCA 76 061301

**A=252**

No references found

**A=253**

$^{253}\text{No}$  2007MA82 NUCLEAR REACTIONS  $^{244}\text{Pu}(^{18}\text{O}, ^{17}\text{O})$ ,  $(^{18}\text{O}, ^{16}\text{O})$ , E=162 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin, half-lives.  $^{245,246}\text{Pu}$ ; deduced levels, J,  $\pi$ , configurations. Compared with experimental and calculated values for the first  $2^+$  level energy in  $^{232,234,236,238,240,242}\text{U}$ ,  $^{234,236,238,240,242,244,248}\text{Pu}$ ,  $^{240,242,244,246,248,250}\text{Cm}$ ,  $^{244,246,248,250,252,254}\text{Cf}$ ,  $^{250,252,254,256}\text{Fm}$ ,  $^{248,250,252,254,256,258}\text{No}$ .  $^{247}\text{Cm}$ ,  $^{249}\text{Cf}$ ,  $^{251}\text{Fm}$ ,  $^{253}\text{No}$ ; systematics. JOUR PRVCA 76 061301

**A=254**

No references found

**A=255**

No references found

**A=256**

No references found

**A=257**

No references found

**A=258**

No references found

**A=259**

No references found

**A=260**

$^{260}\text{Bh}$       2008NE01      NUCLEAR REACTIONS  $^{209}\text{Bi}(^{52}\text{Cr}, \text{n})$ , E=257 MeV; measured correlated decay chain E $\alpha$ , I $\alpha$ , production cross section. JOUR PRLTA  
100 022501

## References

- 2006TAZT S.Takeuchi, N.Aoi, H.Baba, T.Fukui, Y.Hashimoto, K.Ieki, N.Imai, H.Iwasaki, S.Kanno, Y.Kondo, T.Kubo, K.Kurita, T.Minemura, T.Motobayashi, T.Nakabayashi, T.Nakamura, T.Okumura, T.K.Onishi, S.Ota, H.Sakurai, S.Shimoura, R.Sugou, D.Suzuki, H.Suzuki, M.K.Suzuki, E.Takeshita, M.Tamaki, K.Tanaka, Y.Togano, K.Yamada - Proc.Int.Sym.on Structure of Exotic Nuclei and Nuclear Forces, Tokyo, Japan, 9-12 March 2006, p.153 (2006)  
Proton inelastic scattering on  $^{32}\text{Mg}$
- 2007AM10 H.Amro, F.D.Becchetti, Y.Chen, H.Jiang, M.Ojaruega, M.J.Golobish, H.C.Griffin, J.J.Kolata, B.Skorodumov, G.Peaslee, P.A.DeYoung, P.Mears, D.Denby, J.Brown, J.D.Hinnefeld, A.M.Moro - Eur.Phys.J. Special Topics 150, 1 (2007)  
 $^7\text{Be}$ -induced  $\alpha$ -transfer reaction on  $^{12}\text{C}$
- 2007AN34 N.Angelev, S.Baginyan, F.Balestra, Yu.Batusov, I.Belolaptikov, A.Bianconi, T.Blokhintseva, A.Bonyushkina, V.Butenko, M.Chirosso, M.L.Colantoni, A.Demyanov, V.Drozdov, L.Fava, A.Ferrero, V.Frolov, R.Garfagnini, I.Gnesi, A.Grasso, V.Grebenyuk, V.Ivanov, A.Kirilov, V.Kovalenko, E.Lodi Rizzini, V.Lyashenkov, A.Maggiora, M.Maggiora, A.Moiseenko, V.Panyushkin, D.Panzieri, B.Parsamyan, G.Piragino, G.Pontecorvo, V.Pryanichnikov, A.Rozhdestvensky, N.Russakovich, M.Schepkin, I.Smirnova, L.Venturelli, G.F.Zosi - Eur.Phys.J. A 34, 255 (2007)  
Two-prong  $\pi^-$  $^4\text{He}$  interactions at 106 MeV
- 2007AS07 S.F.Ashley, P.H.Regan, K.Andgren, E.A.McCutchan, N.V.Zamfir, L.Amon, R.B.Cakirli, R.F.Casten, R.M.Clark, W.Gelletly, G.Gurdal, K.L.Keyes, D.A.Meyer, M.N.Erduran, A.Papenberg, N.Pietralla, C.Plettner, G.Rainovski, R.V.Ribas, N.J.Thomas, J.Vinson, D.D.Warner, V.Werner, E.Williams, H.L.Liu, F.R.Xu - Phys.Rev. C 76, 064302 (2007)  
Intrinsic state lifetimes in  $^{103}\text{Pd}$  and  $^{106,107}\text{Cd}$
- 2007AT06 F.Atchison, B.Blau, K.Bodek, B.van den Brandt, T.Brys, M.Daum, P.Fierlinger, A.Frei, P.Geltenbort, P.Hautle, R.Henneck, S.Heule, A.Holley, M.Kasprzak, K.Kirch, A.Knecht, J.A.Konter, M.Kuzniak, C.-Y.Liu, C.L.Morris, A.Pichlmaier, C.Plonka, Y.Pokotilovski, A.Saunders, Y.Shin, D.Tortorella, M.Wohlmuther, A.R.Young, J.Zejma, G.Zsigmond - Phys.Rev.Lett. 99, 262502 (2007)  
Cold Neutron Energy Dependent Production of Ultracold Neutrons in Solid Deuterium
- 2007BA73 D.Bandyopadhyay, S.R.Lesher, C.Fransen, N.Boukharouba, P.E.Garrett, K.L.Green, M.T.McEllistrem, S.W.Yates - Phys.Rev. C 76, 054308 (2007)  
Investigation of phonon excitations in  $^{114}\text{Cd}$  with the  $(n, n'\gamma)$  reaction
- 2007BA75 M.K.Bacrania, N.M.Boyd, R.G.H.Robertson, D.W.Storm - Phys.Rev. C 76, 055806 (2007)  
Search for the second forbidden  $\beta$  decay of  $^8\text{B}$  to the ground state of  $^8\text{Be}$

- 2007BA76 Z.Bai, Q.Wang, J.-L.Han, ZG.Xiao, H.-S.Xu, Z.-Y.Sun, Z.-G.Hu, X.-Y.Zhang, H.-W.Wang, R.-S.Mao, X-H.Yuan, Z.-G.Xu, H.-B.Zhang, H.-G.Xu, H.-R.Qi, Y.Wang, F.Jia, L.-J.Wu, X.-L.Ding, Q.Gao, H.Gao, S.-L.Li, J.-Q.Li, Y.-P.Zhang, G.-Q.Xiao, G.-M.Jin, Z.-Z.Ren, S.-G.Zhou, W.Xu, G.-T.Fan, S.-Q.Zhang, D.-Y.Pang, Y.-K.Sergey - Chin.Phys.Lett. 24, 3384 (2007)  
Angular Dispersion and Deflection Function for Heavy Ion Elastic Scattering
- 2007BE61 P.Belli, R.Bernabei, N.Bukilic, F.Cappella, R.Cerulli, C.J.Dai, F.A.Danevich, J.R.de Laeter, A.Incicchitti, V.V.Kobychev, S.S.Nagorny, S.Nisi, F.Nozzoli, D.V.Poda, D.Prosperi, V.I.Tretyak, S.S.Yurchenko - Phys.Rev. C 76, 064603 (2007)  
Investigation of  $\beta$  decay of  $^{113}\text{Cd}$
- 2007BE66 G.Benzoni, F.Azaiez, S.Leoni, S.Battacharyya, R.Borcea, A.Bracco, L.Corradi, D.Curien, G.De France, Zs.Dombradi, E.Fioretto, S.Franchoo, S.Grevy, F.Ibrahim, S.Iulian, G.Mukherjee, A.Navin, G.Pollarolo, N.Redon, P.H.Regan, M.Rejmund, C.Schmitt, G.Sletten, D.Sohler, M.Stanoiu, S.Szilner, D.Verney - Eur.Phys.J. Special Topics 150, 83 (2007)  
In-beam  $\gamma$  spectroscopy using DIC with a radioactive Ne beam
- 2007B041 P.Boutachkov, S.J.Q.Robinson, A.Escuderos, G.Kumbartzki, N.Benczer-Koller, E.Stefanova, Y.Y.Sharon, L.Zamick, E.A.McCutchan, V.Werner, H.Ai, A.B.Garnsworthy, G.Gurdal, A.Heinz, J.Qian, N.J.Thompson, E.Williams, R.Winkler - Phys.Rev. C 76, 054311 (2007)  
Measurement of the g factor of the  $4_1^+$  state in  $^{70}\text{Ge}$
- 2007B048 R.Boutami, M.J.G.Borge, H.Mach, L.M.Fraile, K.Gulda, A.J.Aas, L.M.Garcia-Raffi, E.Hagebo, W.Kurcewicz, G.Lovhoiden, T.Martinez, B.Rubio, J.L.Tain, O.Tengblad - Eur.Phys.J. Special Topics 150, 87 (2007)  
Structure of  $^{231}\text{Ac}$ : Measurements of level half-lives
- 2007B049 M.J.G.Borge, M.Alcorta, H.O.U.Fynbo, G.Garcia, H.B.Jeppeisen, O.Kirsebom, M.Madurga, G.Nyman, D.Obradors, O.Tengblad - Eur.Phys.J. Special Topics 150, 207 (2007)  
Mapping of the  $^{12}\text{C}^*$  states via the  $^{10}\text{B}(^3\text{He}, p\alpha\alpha)$  reaction
- 2007B050 G.Bollen, C.Bachelet, M.Block, D.A.Davies, M.Facina, C.M.Folden, C.Guenaut, J.Huikari, E.Kwan, A.Kwiatowski, D.J.Morrissey, G.Pang, A.Prinke, R.Ringle, J.Savory, P.Schury, S.Schwarz, C.Sumithrarachchi, T.Sun - Eur.Phys.J. Special Topics 150, 337 (2007)  
Penning trap mass measurements of rare isotopes produced by projectile fragmentation with LEBIT at NSCL
- 2007BR30 T.A.D.Brown, P.Papka, B.R.Fulton, D.L.Watson, S.P.Fox, D.Groombridge, M.Freer, N.M.Clarke, N.I.Ashwood, N.Curtis, V.Ziman, P.McEwan, S.Ahmed, W.N.Catford, D.Mahboub, C.N.Timis, T.D.Baldwin, D.C.Weisser - Phys.Rev. C 76, 054605 (2007)  
Decay studies for states in  $^9\text{Be}$  up to 11 MeV: Insights into the n+ $^8\text{Be}$  and  $\alpha+^5\text{He}$  cluster structure
- 2007BR32 T.A.D.Brown, C.Bordeanu, K.A.Snover, D.W.Storm, D.Melconian, A.L.Sallaska, S.K.L.Sjue, S.Triambak - Phys.Rev. C 76, 055801 (2007)

- $^3\text{He} + ^4\text{He} \rightarrow ^7\text{Be}$  astrophysical S factor
- 2007BU35 D.Bucurescu, C.Rusu, N.Marginean, C.A.Ur, G.de Angelis, L.Corradi, D.Bazzacco, S.Beghini, F.Della Vedova, G.Duchene, E.Farnea, T.Faul, E.Fioretto, A.Gadea, W.Gelletly, B.Guiot, M.Ionescu-Bujor, A.Iordachescu, S.D.Landown, S.M.Lenzi, S.Lunardi, P.Mason, C.Mihai, R.Marginean, R.Menegazzo, G.Montagnoli, D.Napoli, Zs.Podolyak, P.H.Regan, F.Scarlassara, A.M.Stefanini, G.Suliman, S.Szilner, M.Trotta, J.J.Valiente-Dobon, Y.H.Zhang - Phys.Rev. C 76, 064301 (2007)  
 $\gamma$ -ray spectroscopy of the neutron-rich nuclei  $^{89}\text{Rb}$ ,  $^{92}\text{Y}$ , and  $^{93}\text{Y}$  with multinucleon transfer reactions
- 2007BU36 A.Burger, M.Stanoiu, F.Azaiez, Zs.Dombradi, A.Al-Khatib, B.Bastin, G.Benzoni, R.Borcea, Ch.Bourgeois, P.Bringel, E.Clement, J.-C.Dalouzy, Z.Dlouhy, A.Drouart, C.Engelhardt, S.Franchoo, Zs.Fulop, A.Gorgen, S.Grevy, H.Hubel, F.Ibrahim, W.Korten, J.Mrazek, A.Navin, F.Rotaru, P.Roussel-Chomaz, M.-G.Saint-Laurent, G.Sletten, D.Sohler, O.Sorlin, Ch.Theisen, C.Timis, D.Verney, S.Williams - Eur.Phys.J. Special Topics 150, 89 (2007)  
Spectroscopy of neutron-deficient nuclei around  $^{36}\text{Ca}$
- 2007CA47 M.Caamano, D.Cortina-Gil, W.Mittig, H.Savajols, M.Chartier, C.E.Demonchy, B.Fernandez, A.Gillibert, M.B.Gomez Hornillos, B.Jurado, O.Kiselev, R.Lemmon, A.Obertelli, F.Rejmund, M.Rejmund, P.Roussel-Chomaz, R.Wolski - Eur.Phys.J. Special Topics 150, 9 (2007)  
The search for  $^7\text{H}$
- 2007CH76 X.Chen, Y.-W.Lui, H.L.Clark, Y.Tokimoto, D.H.Youngblood - Phys.Rev. C 76, 054606 (2007)  
Folding model analysis of 240 MeV  $^6\text{Li}$  elastic scattering on  $^{116}\text{Sn}$  and inelastic scattering to low-lying states of  $^{116}\text{Sn}$
- 2007CH81 R.J.Charity, S.A.Komarov, L.G.Sobotka, J.Clifford, D.Bazin, A.Gade, J.Lee, S.M.Lukyanov, W.G.Lynch, M.Mocko, S.P.Lobastov, A.M.Rogers, A.Sanetullaev, M.B.Tsang, M.S.Wallace, S.Hudan, C.Metelko, M.A.Famiano, A.H.Wuosmaa, M.J.van Goethem - Phys.Rev. C 76, 064313 (2007)  
Particle decay of  $^{12}\text{Be}$  excited states
- 2007CL04 B.Clasie, X.Qian, J.Arrington, R.Asaturyan, F.Benmokhtar, W.Boeglin, P.Bosted, A.Bruell, M.E.Christy, E.Chudakov, W.Cosyn, M.M.Dalton, A.Daniel, D.Day, D.Dutta, L.El Fassi, R.Ent, H.C.Fenker, J.Ferrer, N.Fomin, H.Gao, K.Garrow, D.Gaskell, C.Gray, T.Horn, G.M.Huber, M.K.Jones, N.Kalantarians, C.E.Keppel, K.Kramer, A.Larson, Y.Li, Y.Liang, A.F.Lung, S.Malace, P.Markowitz, A.Matsumura, D.G.Meekins, T.Mertens, G.A.Miller, T.Miyoshi, H.Mkrtychyan, R.Monson, T.Navaradyan, G.Niculescu, I.Niculescu, Y.Okayasu, A.K.Opper, C.Perdrisat, V.Punjabi, A.W.Rauf, V.M.Rodriquez, D.Rohe, J.Ryckebusch, J.Seely, E.Segbefia, G.R.Smith, M.Strikman, M.Sumihama, V.Tadevosyan, L.Tang, V.Tvaskis, A.Villano, W.F.Vulcan, F.R.Wesselmann, S.A.Wood, L.Yuan, X.C.Zheng - Phys.Rev.Lett. 99, 242502 (2007)  
Measurement of Nuclear Transparency for the  $A(e, e'\pi^+)$  Reaction

- 2007DE56 A.N.Deacon, S.J.Freeman, R.V.F.Janssens, M.Honma, M.P.Carpenter, P.Chowdhury, T.Lauritsen, C.J.Lister, D.Seweryniak, J.F.Smith, S.L.Tabor, B.J.Varley, F.R.Xu, S.Zhu - Phys.Rev. C 76, 054303 (2007)  
Yrast structures in the neutron-rich isotopes  $^{59,60}\text{Fe}$  and the role of the  $g_{9/2}$  orbital
- 2007DE61 N.de Sereville, C.Angulo, A.Coc, N.L.Achouri, E.Casarejos, T.Davinson, P.Descouvemont, P.Figuera, S.Fox, F.Hammache, J.Kiener, A.Laird, A.Lefebvre, P.Leleux, P.Mumby-Croft, N.Orr, D.Robertson, K.Vaughan, V.Tatischeff - Eur.Phys.J. Special Topics 150, 211 (2007)  
New low-energy measurement of the  $^{18}\text{F}(\text{p}, \alpha)^{15}\text{O}$  reaction
- 2007EL10 Z.Elekes, Zs.Dombradi, A.Saito, N.Aoi, H.Baba, K.Demichi, Zs.Fulop, J.Gibelin, T.Gomi, H.Hasegawa, N.Imai, M.Ishihara, H.Iwasaki, S.Kanno, S.Kawai, T.Kishida, T.Kubo, K.Kurita, Y.Matsuyama, S.Michimasa, T.Minemura, T.Motobayashi, M.Notani, T.K.Ohnishi, H.J.Ong, S.Ota, A.Ozawa, H.K.Sakai, H.Sakurai, S.Shimoura, E.Takeshita, S.Takeuchi, M.Tamaki, Y.Togano, K.Yamada, Y.Yanagisawa, K.Yoneda - Eur.Phys.J. Special Topics 150, 99 (2007)  
Study of  $N = 20$  shell gap with  $^1\text{H}(^{28}\text{Ne}, ^{27,28}\text{Ne})$  reactions
- 2007ES07 A.Esler, J.C.Peng, D.Chandler, D.Howell, S.K.Lamoreaux, C.Y.Liu, J.R.Torgerson - Phys.Rev. C 76, 051302 (2007)  
Dressed spin of  $^3\text{He}$
- 2007FI16 F.Finger, Jr. - Phys.Part. and Nucl.Lett. 4, 503 (2007)  
Spin Observables in Elastic np Interaction in the Energy Range 230-590 MeV.  
Complete Experiment
- 2007FR24 A.Frei, Yu.Sobolev, I.Altarev, K.Eberhardt, A.Gschrey, E.Gutsmiedl, R.Hackl, G.Hampel, F.J.Hartmann, W.Heil, J.V.Kratz, Th.Lauer, A.Lizon Aguilar, A.R.Muller, S.Paul, Yu.Pokotilovski, W.Schmid, L.Tassini, D.Tortorella, N.Trautmann, U.Trinks, N.Wiehl - Eur.Phys.J. A 34, 119 (2007)  
First production of ultracold neutrons with a solid deuterium source at the pulsed reactor TRIGA Mainz
- 2007GA58 A.Gade, P.Adrich, D.Bazin, M.D.Bowen, B.A.Brown, C.M.Campbell, J.M.Cook, T.Glasmacher, K.Hosier, S.McDaniel, D.McGlinchery, A.Obertelli, L.A.Riley, K.Siwek, J.A.Tostevin, D.Weisshaar - Phys.Rev. C 76, 061302 (2007)  
Inverse-kinematics one-proton pickup with intermediate-energy beams: The  $^9\text{Be}(^{20}\text{Ne}, ^{21}\text{Na}+\gamma)\text{X}$  reaction
- 2007GI17 A.Gillibert, A.Obertelli, N.Alamanos, M.Alvarez, F.Auger, R.Dayras, A.Drouart, G.de France, B.Jurado, N.Keeley, V.Lapoux, W.Mittig, X.Mougeot, L.Nalpas, A.Pakou, N.Patronis, E.Pollacco, F.Rejmund, M.Rejmund, P.Roussel-Chomaz, H.Savajols, F.Skaza, Ch.Theisen - Eur.Phys.J. Special Topics 150, 161 (2007)  
Study of  $N = 16$  for Ne isotopes
- 2007G039 J.R.Goodwin, V.V.Golovko, V.E.Iacob, J.C.Hardy - Eur.Phys.J. A 34, 271 (2007)  
The half-life of  $^{198}\text{Au}$  : High-precision measurement shows no temperature dependence

- 2007G041 M.S.Golovkov, L.V.Grigurenko, A.S.Fomichev, A.V.Gorshkov, V.A.Gorshkov, S.A.Krupko, Yu.Ts.Oganessian, A.M.Rodin, S.I.Sidorchuk, R.S.Slepnev, S.V.Stepantsov, G.M.Ter-Akopian, R.Wolski, A.A.Korsheninnikov, E.Yu.Nikolskii, V.A.Kuzmin, B.G.Novatskii, D.N.Stepanov, S.Fortier, P.Roussel-Chomaz, W.Mittig - Eur.Phys.J. Special Topics 150, 23 (2007)  
Properties of low-lying  ${}^9\text{He}$  state
- 2007G042 A.Gorgen, E.Clement, W.Korten, E.Bouchez, A.Chatillon, A.Hurstel, Y.Le Coz, Ch.Theisen, J.N.Wilson, M.Zielinska, C.Andreoiu, F.Becker, P.Butler, J.M.Casandjian, W.N.Catford, T.Czosnyka, G.de France, J.Gerl, R.-D.Herzberg, J.Iwanicki, D.G.Jenkins, G.D.Jones, P.J.Napiorkowski, G.Sletten, C.Timis - Eur.Phys.J. Special Topics 150, 117 (2007)  
Shape coexistence in  ${}^{74}\text{Kr}$  and  ${}^{76}\text{Kr}$
- 2007GR22 E.-W.Greve, D.Frekers, S.Rakers, T.Adachi, C.Baumer, N.T.Botha, H.Dohmann, H.Fujita, Y.Fujita, K.Hatanaka, K.Nakanishi, A.Negret, R.Neveling, L.Popescu, Y.Sakemi, Y.Shimbara, Y.Shimizu, F.D.Smit, Y.Tameshige, A.Tamii, J.Thies, P.von Brentano, M.Yosoi, R.G.T.Zegers - Phys.Rev. C 76, 054307 (2007)  
( ${}^3\text{He}, t$ ) reaction on the double  $\beta$  decay nucleus  ${}^{48}\text{Ca}$  and the importance of nuclear matrix elements
- 2007GU30 P.Guazzoni, L.Zetta, V.Yu.Ponomarev, G.Graw, R.Hertenberger, T.Faestermann, H.-F.Wirth, M.Jaskola - J.Phys.(London) G34, 2665 (2007)  
High-resolution investigation of the  ${}^{121}\text{Sb}(p, t){}^{119}\text{Sb}$  reaction and quasiparticle-phonon model description
- 2007HA57 H.Hayashi, Y.Akita, O.Suematsu, M.Shibata, M.Asai, T.K.Sato, S.Ichikawa, I.Nishinaka, Y.Nagame, A.Osa, K.Tsukada, T.Ishii, Y.Kojima, A.Taniguchi - Eur.Phys.J. A 34, 363 (2007)  
 $Q_\beta$  measurements of  ${}^{158,159}\text{Pm}$ ,  ${}^{159,161}\text{Sm}$ ,  ${}^{160-165}\text{Eu}$ ,  ${}^{163}\text{Gd}$  and  ${}^{166}\text{Tb}$  using a total absorption BGO detector
- 2007HE30 J.J.He, S.Kubono, T.Teranishi, M.Notani, H.Baba, S.Nishimura, J.Y.Moon, M.Nishimura, H.Iwasaki, Y.Yanagisawa, N.Hokoiwa, M.Kibe, J.H.Lee, S.Kato, Y.Gono, C.S.Lee - Phys.Rev. C 76, 055802 (2007)  
Investigation of structure in  ${}^{23}\text{Al}$  via resonant proton scattering of  ${}^{22}\text{Mg} + p$  and the  ${}^{22}\text{Mg}(p, \gamma){}^{23}\text{Al}$  astrophysical reaction rate
- 2007HI13 K.Hilgers, S.Sudar, S.M.Qaim - Phys.Rev. C 76, 064601 (2007)  
Formation of the isomeric pairs  ${}^{139}\text{Nd}^{m,g}$  and  ${}^{141}\text{Nd}^{m,g}$  in proton and  ${}^3\text{He}$ -particle-induced nuclear reactions
- 2007J014 G.A.Jones, P.H.Regan, Zs.Podolyak, N.Yoshinaga, K.Higashiyama, G.de Angelis, Y.H.Zhang, A.Gadea, C.A.Ur, M.Axiotis, D.Bazzacco, D.Bucurescu, E.Farnea, W.Gelletly, M.Ionescu-Bujor, A.Iordachescu, Th.Kroll, S.D.Langdown, S.Lenzi, S.Lunardi, N.Marginean, T.Martinez, N.H.Medina, R.Menegazzo, D.R.Napoli, B.Quintana, B.Rubio, C.Rusu, R.Schwenger, D.Tonev, J.J.Valiente Doban, W.von Oertzen - Phys.Rev. C 76, 054317 (2007); Erratum Phys.Rev. C 76, 069905 (2007)  
Yrast studies of  ${}^{80,82}\text{Se}$  using deep-inelastic reactions

- 2007JU06 D.S.Judson, A.M.Bruce, T.Kibedi, G.D.Dracoulis, A.P.Byrne, G.J.Lane, K.H.Maier, C.-B.Moon, P.Nieminens, J.N.Orce, M.J.Taylor - Phys.Rev. C 76, 054306 (2007)  
Structure of the isomeric states in  $^{123,125}\text{Sb}$
- 2007KA62 W.G.Kang, Y.D.Kim, J.I.Lee, I.S.Hahn, A.R.Kim, H.J.Kim - Phys.Rev. C 76, 067602 (2007)  
Measurement of the thermal neutron capture cross section of  $^{180}\text{W}$
- 2007KH22 J.Khuyagbaatar, S.Hofmann, F.P.Hessberger, D.Ackermann, S.Antalic, H.G.Burkhard, S.Heinz, B.Kindler, A.F.Lisetskiy, B.Lommel, R.Mann, K.Nishio, H.J.Schott, B.Sulignano - Eur.Phys.J. A 34, 355 (2007)  
Isomeric states in  $^{214}\text{Th}$  and  $^{213}\text{Th}$
- 2007KI17 G.G.Kiss, Gy.Gyurky, Z.Elekes, Zs.Fulop, E.Somorjai, T.Rauscher, M.Wiescher - Phys.Rev. C 76, 055807 (2007)  
 $^{70}\text{Ge}(p, \gamma)^{71}\text{As}$  and  $^{76}\text{Ge}(p, n)^{76}\text{As}$  cross sections for the astrophysical p process:  
Sensitivity of the optical proton potential at low energies
- 2007KL06 A.Klimkiewicz, N.Paar, P.Adrich, M.Fallot, K.Boretzky, T.Aumann, D.Cortina-Gil, U.Datta Pramanik, Th.W.Elze, H.Emling, H.Geissel, M.Hellstrom, K.L.Jones, J.V.Kratz, R.Kulessa, C.Nociforo, R.Palit, H.Simon, G.Surowka, K.Summerer, D.Vretenar, W.Walus, for the LAND Collaboration - Phys.Rev. C 76, 051603 (2007)  
Nuclear symmetry energy and neutron skins derived from pygmy dipole resonances
- 2007KR19 Th.Kroll, T.Behrens, R.Krucken, V.Bildstein, R.Gernhauser, P.Maierbeck, I.Stefanescu, O.Ivanov, J.Van de Walle, N.Warr, P.A.Butler, J.Cederkall, P.Delahaye, L.M.Fraile, G.Georgiev, U.Koster, T.Sieber, D.Voulot, F.Wenander, P.E.Kent, A.Ekstrom, K.-H.Speidel, J.Leske, S.Schielke, D.Habs, R.Lutter, P.Thirolf, H.Scheit, T.Davinson, and the REX-ISOLDE and MINIBALL  
Collaboration - Eur.Phys.J. Special Topics 150, 127 (2007)  
Coulomb excitation of neutron-rich  $^{138,140,142}\text{Xe}$  at REX-ISOLDE
- 2007KU30 J.Kurcewicz, W.Czarnacki, M.Karny, M.Kasztelan, M.Kisielski, A.Korgul, W.Kurcewicz, J.Kurpetta, S.Lewandowski, P.Majorkiewicz, H.Penttila, A.Plochocki, B.Roussiere, O.Steczkiewicz, A.Wojtasiewicz - Phys.Rev. C 76, 054320 (2007)  
Identification of an  $\alpha$ -decaying ( $9^-$ ) isomer in  $^{216}\text{Fr}$
- 2007LA37 M.La Cognata, S.Romano, C.Spitaleri, S.Cherubini, V.Crucilla, M.Gulino, L.Lamia, R.G.Pizzone, A.Tumino, R.Tribble, C.Fu, V.Z.Goldberg, A.M.Mukhamedzhanov, D.Schmidt, G.Tabacaru, L.Trache, B.F.Irgaziev - Phys.Rev. C 76, 065804 (2007)  
Astrophysical S(E) factor of the  $^{15}\text{N}(p, \alpha)^{12}\text{C}$  reaction at sub-Coulomb energies via the Trojan horse method
- 2007LI71 Yu.A.Litvinov, F.Bosch, H.Geissel, J.Kurcewicz, Z.Patyk, N.Winckler, L.Batist, K.Beckert, D.Boutin, C.Brandau, L.Chen, C.Dimopoulou, B.Fabian, T.Faestermann, A.Fragner, L.Grigorenko, E.Haettner, S.Hess, P.Kienle, R.Knobel, C.Kozuharov, S.A.Litvinov, L.Maier, M.Mazzocco, F.Montes, G.Munzenberg, A.Musumarra, C.Nociforo, F.Nolden, M.Pfutzner, W.R.Plass A.Prochazka, R.Reda, R.Reuschl, C.Scheidenberger, M.Steck, T.Stohlker, S.Torilov, M.Trassinelli, B.Sun, H.Weick, M.Winkler - Phys.Rev.Lett. 99, 262501 (2007)

- Measurement of the  $\beta^+$  and Orbital Electron-Capture Decay Rates in Fully Ionized, Hydrogenlike, and Heliumlike  $^{140}\text{Pr}$  Ions
- 2007LI81 R.Lichtenthaler, P.N.de Faria, A.Lepine-Szily, V.Guimaraes, O.Camargo, R.Denke, E.A.Benjamim, A.Barioni, K.C.C.Pires, D.J.Mendes, M.Assuncao, A.Arazi, I.Padron, P.R.S.Gomes - Eur.Phys.J. Special Topics 150, 27 (2007)  
Elastic scattering of  $^6\text{He} + ^{27}\text{Al}$  and  $^7\text{Be} + ^{51}\text{V}$  at RIBRAS
- 2007LI83 S.N.Liddick, R.Grzywacz, C.Mazzocchi, R.D.Page, K.P.Rykaczewski, J.C.Batchelder, C.R.Bingham, I.G.Darby, G.Drafta, C.Goodin, C.J.Gross, J.H.Hamilton, A.A.Hecht, J.K.Hwang, S.Ilyushkin, D.T.Joss, A.Korgul, W.Krolas, K.Lagergren, K.Li, M.N.Tantawy, J.Thomson, J.A.Winger - Eur.Phys.J. Special Topics 150, 131 (2007)  
Identification of the  $^{109}\text{Xe}$  and  $^{105}\text{Te}$   $\alpha$ -decay chain
- 2007LU18 J.Luo, X.Xu, X.Cao, X.Kong - Nucl.Instrum.Methods Phys.Res. B265, 453 (2007)  
Activation cross sections and isomeric cross section ratios for the (n, 2n) reactions  $^{175}\text{Lu}$ ,  $^{198}\text{Pt}$  and  $^{82}\text{Se}$  from 13.5 to 14.6 MeV
- 2007LU19 J.Luo, G.Liu, F.Tuo, X.Kong, R.Liu, J.Li, B.Lou - Phys.Rev. C 76, 057601 (2007)  
Activation cross sections for reactions induced by 14 MeV neutrons on natural ruthenium
- 2007MA82 H.Makii, T.Ishii, M.Asai, K.Tsukada, A.Toyoshima, M.Matsuda, A.Makishima, J.Kaneko, H.Toume, S.Ichikawa, S.Shigematsu, T.Kohno, M.Ogawa - Phys.Rev. C 76, 061301 (2007)  
Z dependence of the N = 152 deformed shell gap: In-beam  $\gamma$ -ray spectroscopy of neutron-rich  $^{245,246}\text{Pu}$
- 2007MA83 K.H.Maier, T.Kibedi, G.D.Dracoulis, P.Boutachkov, A.Aprahamian, A.P.Byrne, P.M.Davidson, G.J.Lane, M.Marie-Jeanne, P.Nieminen, H.Watanabe - Phys.Rev. C 76, 064304 (2007)  
Measurement of conversion electrons with the  $^{208}\text{Pb}(p, n)^{208}\text{Bi}$  reaction and derivation of the shell model proton neutron hole interaction from the properties of  $^{208}\text{Bi}$
- 2007MA90 M.Mazzocco, C.Signorini, M.Romoli, R.Bonetti, A.De Francesco, A.De Rosa, M.Di Pietro, L.Fortunato, T.Glodariu, A.Guglielmetti, G.Inglima, T.Ishikawa, H.Ishiyama, R.Kanungo, N.Khai, S.Jeong, M.La Commara, B.Martin, H.Miyatake, T.Motobayashi, T.Nomura, D.Pierroutsakou, M.Sandoli, F.Soramel, L.Stroe, I.Sugai, M.H.Tanaka, E.Vardaci, Y.Watanabe, A.Yoshida, K.Yoshida - Eur.Phys.J. Special Topics 150, 37 (2007)  
Elastic scattering for the system  $^{11}\text{Be} + ^{209}\text{Bi}$  at Coulomb barrier energies
- 2007MA91 M.Madurga, M.J.G.Borge, H.O.U.Fynbo, B.Jonson, G.Nyman, Y.Prezado, K.Riisager, O.Tengblad, for the IS-417 Collaboration and TONERRE Collaboration - Eur.Phys.J. Special Topics 150, 137 (2007)  
Multiple particle break-up study of low excited states in  $^9\text{Be}$ : The ghost peak in the  $^8\text{Be}$  excitation energy spectrum visited

- 2007MA92 A.Martin, D.Ackermann, G.Audi, K.Blaum, M.Block, A.Chaudhuri, Z.Di, S.Eliseev, R.Ferrer, D.Habs, F.Herfurth, F.P.Hessberger, S.Hofmann, H.-J.Kluge, M.Mazzocco, M.Mukherjee, J.B.Neumayr, Yu.Novikov, W.Plass, S.Rahaman, C.Rauth, D.Rodriguez, C.Scheidenberger, L.Schweikhard, P.G.Thirolf, G.Vorobjev, C.Weber - Eur.Phys.J. A 34, 341 (2007)  
Mass measurements of neutron-deficient radionuclides near the end-point of the rp-process with SHIPTRAP
- 2007MAZR K.H.Maier, T.Kibedi, G.D.Dracoulis, P.Boutachkov, A.Aprahamian, A.P.Byrne, P.M.Davidson, G.J.Lane, M.Marie-Jeanne, P.Nieminen, H.Watanabe - ANU-P/1815 (2007)  
Measurement of Conversion Electrons with the  $^{208}\text{Pb}(p, n)^{208}\text{Bi}$  reaction and Derivation of the Shell Model Proton Neutron Hole Interaction from the Properties of  $^{208}\text{Bi}$
- 2007MC08 E.A.McCutchan, R.F.Casten, V.Werner, A.Wolf, Z.Berant, R.J.Casperson, A.Heinz, R.Luttke, B.Shoraka, J.R.Terry, E.Williams, R.Winkler - Phys.Rev. C 76, 064307 (2007)  
 $\beta$  decay study of  $^{168}\text{Hf}$  and a test of new geometrical models
- 2007MI40 K.Miernik, W.Dominik, Z.Janas, M.Pfutzner, L.Grigorenko, C.R.Bingham, H.Czyrkowski, M.Cwiok, I.G.Darby, R.Dabrowski, T.Ginter, R.Grzywacz, M.Karny, A.Korgul, W.Kusmierz, S.N.Liddick, M.Rajabali, K.Rykaczewski, A.Stolz - Phys.Rev.Lett. 99, 192501 (2007)  
Two-Proton Correlations in the Decay of  $^{45}\text{Fe}$
- 2007MI46 F.Michel, S.Ohkubo - Eur.Phys.J. Special Topics 150, 41 (2007)  
Unexpected transparency in the scattering of fragile  $^6\text{Li}$  and  $^6\text{He}$  Nuclei
- 2007MI48 K.Minamisono, P.F.Mantica, T.J.Mertzimekis, A.D.Davies, M.Hass, J.Pereira, J.S.Pinter, W.F.Rogers, J.B.Stoker, B.E.Tomlin, R.R.Weerasiri - Eur.Phys.J. Special Topics 150, 145 (2007)  
Nuclear magnetic moment of  $^{57}\text{Cu}$  ground state
- 2007M037 C.-B.Moon, C.S.Lee, T.Komatsubara, Y.Sasaki, K.Furuno - Phys.Rev. C 76, 067301 (2007)  
Structure of the negative parity bands in  $^{125}\text{Xe}$
- 2007MU17 P.Mueller, I.A.Sulai, A.C.C.Villari, J.A.Alcantara-Nunez, R.Alves-Conde, K.Bailey, G.W.F.Drake, M.Dubois, C.Eleon, G.Gaubert, R.J.Holt, R.V.F.Janssens, N.Lecesne, Z.-T.Lu, T.P.O'Connor, M.-G.Saint-Laurent, J.-C.Thomas, L.-B.Wang - Phys.Rev.Lett. 99, 252501 (2007)  
Nuclear Charge Radius of  $^8\text{He}$
- 2007MU20 T.Murata, S.Takayanagi, R.Chiba, N.Kawai - J.Nucl.Sci.Technol.(Tokyo) 44, 1484 (2007)  
On the  $^{24}\text{Mg}(t, p)$  Reaction in the Incident Energy Range of 1.65-3.4 MeV
- 2007NA26 Y.Nagai, M.Segawa, T.Ohsaki, H.Matsue, K.Muto - Phys.Rev. C 76, 051301 (2007)  
Role of multiparticle-multipole states in  $^{18,19}\text{O}$  in thermal neutron capture of  $^{18}\text{O}$

- 2007NA31 P.Napolitani, K.-H.Schmidt, L.Tassan-Got, P.Armbruster, T.Enqvist, A.Heinz, V.Henzl, D.Henzlova, A.Kelic, R.Pleskac, M.V.Ricciardi, C.Schmitt, O.Yordanov, L.Audouin, M.Bernas, A.Lafriaskh, F.Rejmund, C.Stephan, J.Benlliure, E.Casarejos, M.Fernandez-Ordonez, J.Pereira, A.Boudard, B.Fernandez, S.Leray, C.Villagrasa, C.Volant - Phys.Rev. C 76, 064609 (2007)  
Measurement of the complete nuclide production and kinetic energies of the system  $^{136}\text{Xe} + \text{hydrogen}$  at 1 GeV per nucleon
- 2007NA33 S.Nakamura, M.Ohta, H.Harada, T.Fujii, H.Yamana - J.Nucl.Sci.Technol.(Tokyo) 44, 1500 (2007)  
Thermal-Neutron Capture Cross Section and Resonance Integral of Americium-241
- 2007NA37 B.S.Nara Singh, A.N.Steer, D.G.Jenkins, R.Wadsworth, P.J.Davies, R.Glover, N.S.Pattabiraman, T.Grahn, P.T.Greenlees, P.Jones, R.Julin, M.Leino, M.Nyman, J.Pakarinen, P.Rahkila, C.Scholey, J.Sorri, J.Uusitalo, P.A.Butler, M.Dimmock, D.T.Joss, J.Thomson, C.J.Lister, B.Cederwall, B.Hadinia, M.Sandzelius - Eur.Phys.J. Special Topics 150, 147 (2007)  
Recoil Beta Tagging: Application to the study of odd-odd near proton drip line nuclei,  $^{74}\text{Rb}$  and  $^{78}\text{Y}$
- 2007NE14 G.Neyens, P.Himpe, D.L.Balabanski, P.Morel, L.Perrot, M.De Rydt, I.Stefan, C.Stodel, J.C.Thomas, N.Vermeulen, D.T.Yordanov - Eur.Phys.J. Special Topics 150, 149 (2007)  
The "island of inversion" from a nuclear moments perspective and the g factor of  $^{35}\text{Si}$
- 20070NZZ H.J.Ong, N.Imai, D.Suzuki, H.Iwasaki, H.Sakurai, T.K.Onishi, M.K.Suzuki, S.Ota, S.Takeuchi, T.Nakao, Y.Togano, Y.Kondo, N.Aoi, H.Baba, S.Bishop, Y.Ichikawa, M.Ishihara, T.Kubo, K.Kurita, T.Motobayashi, T.Nakamura, T.Okumura, Y.Yanagisawa - RIKEN-NC-NP-16 (2007)  
Lifetime measurements of first excited states in  $^{16,18}\text{C}$
- 2007PA42 A.Pakou, K.Rusek, N.Alamanos, X.Aslanoglou, S.Harissopoulos, M.Kokkoris, A.Lagoyannis, T.J.Mertzimekis, A.Musumarra, N.G.Nicolis, C.Papachristodoulou, D.Pierroutsakou, D.Roubos - Phys.Rev. C 76, 054601 (2007)  
Strong transfer channels in the  $^6\text{Li} + ^{28}\text{Si}$  system at near-barrier energies
- 2007PA45 S.R.Palvanov, M.I.Mamayusupova - At.Energ. 103, 827 (2007)  
Isomeric yield ratios for the reaction  $^{142}\text{Nd}(\gamma, n)^{141m,g}\text{Nd}$
- 2007PE32 M.Petri, E.S.Paul, B.Cederwall, I.G.Darby, M.R.Dimmock, S.Eeckhaudt, E.Ganioglu, T.Grahn, P.T.Greenlees, B.Hadinia, P.Jones, D.T.Joss, R.Julin, S.Juutinen, S.Ketelhut, A.Khaplanov, M.Leino, L.Nelson, M.Nyman, R.D.Page, P.Rahkila, M.Sandzelius, J.Saren, C.Scholey, J.Sorri, J.Uusitalo, R.Wadsworth - Phys.Rev. C 76, 054301 (2007)  
Nuclear levels in proton-unbound  $^{109}\text{I}$ : Relative single-particle energies beyond the proton drip line

- 2007P013 Zs.Podolyak, S.J.Steer, S.Pietri, E.Werner-Malento, P.H.Regan, D.Rudolph, A.B.Garnsworthy, R.Hoischen, M.Gorska, J.Gerl, H.J.Wollersheim, T.Kurtukian-Nieto, G.Benzoni, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, H.Geissel, J.Grebosz, A.Kelic, I.Kojouharov, N.Kurz, F.Montes, W.Prokopowicz, T.Saito, H.Schaffner, S.Tashenov, A.Heinz, M.Pfutzner, M.Hellstrom, A.Jungclaus, L.-L.Andersson, L.Aтанасова, D.L.Balabanski, M.A.Bentley, B.Blank, A.Blatzhev, C.Brandau, J.Brown, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, C.Fahlander, W.Gelletly, G.Ilie, E.K.Johansson, J.Jolie, G.A.Jones, M.Kmiecik, F.G.Kondev, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, T.Shizuma, A.J.Simons, S.Schwertel, P.M.Walker, O.Wieland, B.A.Brown - Eur.Phys.J. Special Topics 150, 165 (2007)  
Isomeric decay studies around  $^{204}\text{Pt}$  and  $^{148}\text{Tb}$
- 2007RA36 E.Rapisarda, F.Amorini, L.Calabretta, G.Cardella, M.De Napoli, G.Raciti, C.Sfienti - Eur.Phys.J. Special Topics 150, 169 (2007)  
 $^{18}\text{Ne}$  diproton decay
- 2007RA37 C.Rauth, D.Ackermann, G.Audi, M.Block, A.Chaudhuri, S.Eliseev, F.Herfurth, F.P.Hessberger, S.Hofmann, H.-J.Kluge, A.Martin, G.Marx, M.Mukherjee, J.B.Neumayr, W.R.Plass, S.Rahaman, D.Rodriguez, L.Schweikhard, P.G.Thirolf, G.Vorobjev, C.Weber - Eur.Phys.J. Special Topics 150, 329 (2007)  
Direct mass measurements around  $A=146$  at SHIPTRAP
- 2007RI17 J.Rissanen, V.-V.Eloomaa, T.Eronen, J.Hakala, A.Jokinen, S.Rahaman, S.Rinta-Antila, J.Aysto - Eur.Phys.J. A 34, 113 (2007)  
Conversion electron spectroscopy of isobarically purified trapped radioactive ions
- 2007ROZY E.Rodriguez-Vieitez - Berkeley University of California (2007)  
Structure and Cross Section Data of Neutron-Rich  $N \sim 20$  Nuclei Produced in Fragmentation and Few-Nucleon Knockout Reactions
- 2007SC46 V.Scuderi, M.Zadro, A.Di Pietro, P.Figuera, M.Lattuada, F.Pansini, M.Papa, D.Vinciguerra, O.Yu.Goryunov, A.Khouaja, V.Lyapin, C.Nociforo, V.V.Ostashko - Eur.Phys.J. Special Topics 150, 53 (2007)  
Inverse kinematics resonance scattering on thick target with EXCYT beams
- 2007SH46 S.A.Sheets, U.Agyaanluvsan, J.A.Becker, F.Becvar, T.A.Bredeweg, R.C.Haight, M.Krticka, M.Jandel, G.E.Mitchell, J.M.O'Donnell, W.E.Parker, R.Reifarth, R.S.Rundberg, E.I.Sharapov, I.Tomandl, J.L.Ullmann, D.J.Vieira, J.M.Wouters, J.B.Wilhelmy, C.Y.Wu - Phys.Rev. C 76, 064317 (2007)  
Spin and parity assignments for  $^{94,95}\text{Mo}$  neutron resonances
- 2007ST29 E.Stephan, St.Kistryn, R.Sworst, A.Biegun, K.Bodek, I.Ciepal, A.Deltuva, E.Epelbaum, A.Fonseca, W.Glockle, J.Golak, N.Kalantar-Nayestanaki, H.Kamada, M.Kis, A.Kozela, M.Mahjour-Shafiei, A.Micherdzinska, A.Nogga, P.U.Sauer, R.Skibinski, H.Witala, J.Zejma, W.Zipper - Phys.Rev. C 76, 057001 (2007)  
Vector and tensor analyzing powers of elastic deuteron-proton scattering at 130 MeV deuteron beam energy

- 2007SU25 T.Suzuki, H.Bhang, J.Chiba, S.Chi, Y.Fukuda, T.Hanaki, R.S.Hayano, M.Iio, T.Ishikawa, S.Ishimoto, T.Ishiwatari, K.Itahashi, M.Iwai, M.Iwasaki, P.Kienle, J.H.Kim, Y.Matsuda, H.Ohnishi, S.Okada, H.Outa, M.Sato, S.Suzuki, D.Tomono, E.Widmann, T.Yamazaki, H.Yim, KEK-PS E549 Collaboration - Phys.Rev. C 76, 068202 (2007)  
Λd correlations from the  ${}^4\text{He}(\text{stopped-K}^-, \text{d})$  reaction
- 2007TE12 G.M.Ter-Akopian, A.S.Fomichev, M.S.Golovkov, L.V.Grigurenko, S.A.Krupko, Yu.Ts.Oganessian, A.M.Rodin, S.I.Sidorchuk, R.S.Slepnev, S.V.Stepantsov, R.Wolski, A.A.Korsheninnikov, E.Yu.Nikolskii, P.Roussel-Chomaz, W.Mittig, V.A.Kuzmin, B.G.Novatskii, D.N.Stepanov - Eur.Phys.J. Special Topics 150, 61 (2007)  
Neutron excess nuclei of hydrogen and helium at ACCULINNA
- 2007T023 B.E.Tomlin, P.F.Mantica, W.B.Walters - Eur.Phys.J. Special Topics 150, 183 (2007)  
Seeking the phase transition where Cd, Ag, Pd, Rh, and Ru isotopes become "neutron rich": Isomeric decay in  ${}^{125,126,127}\text{Cd}$ ,  ${}^{123,124,125}\text{Ag}$ ,  ${}^{121}\text{Pd}$ ,  ${}^{120}\text{Rh}$ , and  ${}^{117}\text{Ru}$
- 2007UE02 H.Ueno, D.Kameda, D.Nagae, M.Takemura, K.Asahi, K.Shimada, K.Takase, T.Sugimoto, T.Nagatomo, M.Uchida, T.Arai, T.Inoue, A.Yoshimi, T.Kawamura, K.Narita - Eur.Phys.J. Special Topics 150, 185 (2007)  
Nuclear moments of neutron-rich aluminum isotopes
- 2007VE08 D.Verney, F.Ibrahim, C.Bourgeois, S.Essabaa, S.Gales, L.Gaudefroy, D.Guillemaud-Mueller, F.Hammache, C.Lau, F.Le Blanc, A.C.Mueller, O.Perru, F.Pougheon, B.Roussiere, J.Sauvage, O.Sorlin, for the PARRNe Collaboration - Phys.Rev. C 76, 054312 (2007)  
Low-energy states of  ${}_{31}^{81}\text{Ga}_{50}$  Proton structure of the nuclei close to  ${}^{78}\text{Ni}$
- 2007VE13 S.Verma, J.J.Das, A.Jhingan, K.Kalita, S.Barua, K.S.Golda, N.Madhavan, P.Sugathan, S.Nath, T.Varughese, J.Gehlot, S.Mandal, S.Ranjit, P.K.Sahu, B.John, B.K.Nayak, A.Saxena, S.K.Datta, R.Singh - Eur.Phys.J. Special Topics 150, 75 (2007)  
Measurements of elastic scattering for  ${}^7\text{Be}$ ,  ${}^7\text{Li} + {}^9\text{Be}$  systems and fusion cross sections for  ${}^7\text{Li} + {}^9\text{Be}$  system
- 2007VE14 Ts.Venkova, M.-G.Porquet, I.Deloncle, P.Petkov, A.Astier, A.Prevost, F.Azaiez, A.Bogachev, A.Butia, D.Curien, O.Dorvaux, G.Duchene, J.Durell, B.J.P.Gall, M.Houry, F.Khalfallah, R.Lucas, M.Meyer, I.Piqueras, N.Redon, A.Roach, M.Rousseau, O.Stezowski, Ch.Theisen - Eur.Phys.J. A 34, 349 (2007)  
New high-spin states of  ${}_{58}^{142}\text{Ce}$  and  ${}_{56}^{140}\text{Ba}$  from fusion-fission reactions: Proton excitations in the  $N = 84$  isotones
- 2007VI16 D.W.Visser, C.Wrede, J.A.Caggiano, J.A.Clark, C.Deibel, R.Lewis, A.Parikh, P.D.Parker - Phys.Rev. C 76, 065803 (2007)  
Measurement of  ${}^{23}\text{Mg}(\text{p}, \gamma){}^{24}\text{Al}$  resonance energies

## REFERENCES

---

- 2007WH01 E.R.White, H.Mach, L.M.Fraile, U.Koster, O.Arndt, A.Blažhev, N.Boelaert, M.J.G.Borge, R.Boutami, H.Bradley, N.Braun, Z.Dlouhy, C.Fransen, H.O.U.Fynbo, Ch.Hinke, P.Hoff, A.Joinet, A.Jokinen, J.Jolie, A.Korgul, K.-L.Kratz, T.Kroll, W.Kurcewicz, J.Nyberg, E.-M.Reillo, E.Ruchowska, W.Schwerdtfeger, G.S.Simpson, M.Stanoiu, O.Tengblad, P.G.Thirolf, V.Ugryumov, W.B.Walters - Phys.Rev. C 76, 057303 (2007)  
Lifetime measurement of the 167.1 keV state in  $^{41}\text{Ar}$
- 2007WI11 D.R.Wiseman, A.N.Andreyev, R.D.Page, M.B.Smith, I.G.Darby, S.Eeckhaudt, T.Grahn, P.T.Greenlees, P.Jones, R.Julin, S.Juutinen, H.Kettunen, M.Leino, A.-P.Leppanen, M.Nyman, J.Pakarinen, P.Rahkila, M.Sandzelius, J.Saren, C.Scholey, J.Uusitalo - Eur.Phys.J. A 34, 275 (2007)  
In-beam gamma-ray spectroscopy of  $^{190,197}\text{Po}$
- 2007WR01 C.Wrede, J.A.Caggiano, J.A.Clark, C.Deibel, A.Parikh, P.D.Parker - Phys.Rev. C 76, 052802 (2007)  
New  $^{30}\text{P}(\text{p}, \gamma)^{31}\text{S}$  resonances and oxygen-neon nova nucleosynthesis
- 2007YA20 T.Yamaguchi, T.Suzuki, T.Ohnishi, K.Summerer, F.Becker, M.Fukuda, H.Geissel, M.Hosoi, R.Janik, K.Kimura, S.Mandal, G.Munzenberg, S.Nakajima, T.Ohtsubo, A.Ozawa, A.Prochazka, M.Shindo, B.Sitar, P.Strmen, T.Suda, K.Sugawara, I.Szarka, A.Takisawa, M.Takechi, K.Tanaka - Eur.Phys.J. Special Topics 150, 197 (2007)  
Nuclear radius systematics of Kr isotopes studied via their interaction cross-sections at relativistic energies
- 2007ZH46 Y.C.Zhang, W.C.Ma, A.V.Afanasjev, G.B.Hagemann, J.Begnaud, M.P.Carpenter, P.Chowdhury, D.M.Cullen, M.K.Djongolov, D.J.Hartley, R.V.F.Janssens, T.L.Khoo, F.G.Kondev, T.Lauritsen, E.F.Moore, E.Ngijoi-Yogo, S.Odegard, L.L.Riedinger, S.V.Rigby, D.G.Roux, D.T.Scholes, R.B.Yadav, J.-Y.Zhang, S.Zhu - Phys.Rev. C 76, 064321 (2007)  
Nuclear shapes of highly deformed bands in  $^{171,172}\text{Hf}$  and neighboring Hf isotopes
- 2008AG04 A.Aguilar, D.B.Campbell, K.Chandler, A.Pipidis, M.A.Riley, C.Teal, J.Simpson, D.J.Hartley, F.G.Kondev, R.M.Clark, M.Cromaz, P.Fallon, I.Y.Lee, A.O.Macchiavelli, I.Ragnarsson - Phys.Rev. C 77, 021302 (2008)  
New shape minimum in  $^{160}\text{Yb}$ : Evidence for a triaxial, strongly deformed band
- 2008AL03 A.M.Alpizar-Vicente, T.A.Bredeweg, E.-I.Esch, U.Greife, R.C.Haight, R.Hatarik, J.M.O'Donnell, R.Reifarth, R.S.Rundberg, J.L.Ullmann, D.J.Vieira, J.M.Wouters - Phys.Rev. C 77, 015806 (2008)  
Neutron capture cross section of  $^{62}\text{Ni}$  at s-process energies
- 2008AM01 K.Ammon, I.Leya, B.Lavielle, E.Gilabert, J.-C.David, U.Herpers, R.Michel - Nucl.Instrum.Methods Phys.Res. B266, 2 (2008)  
Cross sections for the production of helium, neon and argon isotopes by proton-induced reactions on iron and nickel

## REFERENCES

---

- 2008AN01 J.Andrzejewski, A.Krol, J.Perkowski, K.Sobczak, R.Wojtkiewicz, M.Kisielinski, M.Kowalczyk, J.Kownacki, A.Korman - Nucl.Instrum.Methods Phys.Res. A585, 155 (2008)  
Electron spectrometer for "in-beam" spectroscopy
- 2008AR01 C.Arpesella, for the Borexino Collaboration - Phys.Lett. B 658, 101 (2008)  
First real time detection of  ${}^7\text{Be}$  solar neutrinos by Borexino
- 2008AT01 F.M.D.Attar, R.Mandal, S.D.Dhole, A.Saxena, Ashokkumar, S.Ganesan, S.Kailas, V.N.Bhoraskar - Nucl.Phys. A802, 1 (2008)  
Cross-sections for formation of  ${}^{89}\text{Zr}^m$  through  ${}^{90}\text{Zr}(n, 2n){}^{89}\text{Zr}^m$  reaction over neutron energy range 13.73 MeV to 14.77 MeV
- 2008BE02 P.Belli, R.Bernabei, F.Cappella, R.Cerulli, C.J.Dai, F.A.Danevich, B.V.Grinyov, A.Incicchitti, V.V.Kobychev, L.L.Nagornaya, S.S.Nagorny, F.Nozzoli, D.V.Poda, D.Prosperi, V.I.Tretyak, S.S.Yurchenko - Phys.Lett. B 658, 193 (2008)  
Search for  $2\beta$  processes in  ${}^{64}\text{Zn}$  with the help of ZnWO<sub>4</sub> crystal scintillator
- 2008BH02 S.Bhattacharya, S.Mukhopadhyay, D.Pandit, S.Pal, A.De, S.Bhattacharya, C.Bhattacharya, K.Banerjee, S.Kundu, T.K.Rana, A.Dey, G.Mukherjee, T.Ghosh, D.Gupta, S.R.Banerjee - Phys.Rev. C 77, 024318 (2008)  
Giant dipole resonance width in nuclei near Sn at low temperature and high angular momentum
- 2008BI04 M.Biswas, S.Roy, M.Sinha, M.K.Pradhan, A.Mukherjee, P.Basu, H.Majumdar, K.Ramachandran, A.Shrivastava - Nucl.Phys. A802, 67 (2008)  
The study of threshold behaviour of effective potential for  ${}^6\text{Li} + {}^{58,64}\text{Ni}$  systems
- 2008BL01 K.Blaum, W.Geithner, J.Lassen, P.Lievens, K.Marinova, R.Neugart - Nucl.Phys. A799, 30 (2008)  
Nuclear moments and charge radii of argon isotopes between the neutron-shell closures N = 20 and N = 28
- 2008BR01 R.T.Braun, W.Tornow, C.R.Howell, D.E.Gonzalez Trotter, C.D.Roper, F.Salinas, H.R.Setze, R.L.Walter, G.J.Weisel - Phys.Lett. B 660, 161 (2008)  
Neutron-proton analyzing power at 12 MeV and inconsistencies in parametrizations of nucleon-nucleon data
- 2008CH07 G.Christian, W.A.Peters, D.Absalon, D.Albertson, T.Baumann, D.Bazin, E.Breitbach, J.Brown, P.L.Cole, D.Denby, P.A.DeYoung, J.E.Finck, N.Frank, A.Fritsch, C.Hall, A.M.Hayes, J.Hinnefeld, C.R.Hoffman, R.Howes, B.Luther, E.Mosby, S.Mosby, D.Padilla, P.V.Pancella, G.Peaslee, W.F.Rogers, A.Schiller, M.J.Strongman, M.Thoennesen, L.O.Wagner - Nucl.Phys. A801, 101 (2008)  
Production of nuclei in neutron unbound states via primary fragmentation of  ${}^{48}\text{Ca}$
- 2008C003 A.Couture, M.Beard, M.Couder, J.Gorres, L.Lamm, P.J.LeBlanc, H.Y.Lee, S.O'Brien, A.Palumbo, E.Stech, E.Strandberg, W.Tan, E.Uberseder, C.Ugalde, M.Wiescher, R.Azuma - Phys.Rev. C 77, 015802 (2008)  
Measurement of the  ${}^{19}\text{F}(p, \gamma){}^{20}\text{Ne}$  reaction and interference terms from  $E_{c.m.}=200\text{-}760$  keV

## REFERENCES

---

- 2008CU01 N.Curtis, N.L.Achouri, N.I.Ashwood, H.G.Bohlen, W.N.Catford, N.M.Clarke, M.Freer, P.J.Haigh, B.Laurent, N.A.Orr, N.P.Patterson, N.Soic, J.S.Thomas, V.Ziman - Phys.Rev. C 77, 021301 (2008)  
Breakup reaction study of the Brunnian nucleus  $^{10}\text{C}$
- 2008DA01 L.Daraban, K.Abbas, F.Simonelli, R.Adam-Rebeles, N.Gibson - Appl.Radiat.Isot. 66, 261 (2008)  
Experimental study of excitation functions for the deuteron induced reactions  $^{64}\text{Zn}(\text{d}, 2\text{p})^{64}\text{Cu}$  and  $^{64}\text{Zn}(\text{d}, \alpha n)^{61}\text{Cu}$  using the stacked-foil technique
- 2008DA02 J.Dawson, R.Ramaswamy, C.Reeve, J.R.Wilson, K.Zuber - Nucl.Phys. A799, 167 (2008)  
A search for various double beta decay modes of tin isotopes
- 2008D002 M.Dozono, T.Wakasa, E.Ihara, S.Asaji, K.Fujita, K.Hatanaka, T.Ishida, T.Kaneda, H.Matsubara, Y.Nagasue, T.Noro, Y.Sakemi, Y.Shimizu, H.Takeda, Y.Tameshige, A.Tamii, Y.Yamada - J.Phys.Soc.Jpn. 77, 014201 (2008)  
Complete Set of Polarization Transfer Observables for the  $^{12}\text{C}(\text{p}, \text{n})$  Reaction at 296 MeV and 0 degrees
- 2008DV01 Z.Dvorakova, R.Henkelmann, X.Lin, A.Turler, H.Gerstenberg - Appl.Radiat.Isot. 66, 147 (2008)  
Production of  $^{177}\text{Lu}$  at the new research reactor FRM-II: Irradiation yield of  $^{176}\text{Lu}(\text{n}, \gamma)^{177}\text{Lu}$
- 2008DW01 M.Dworschak, G.Audi, K.Blaum, P.Delahaye, S.George, U.Hager, F.Herfurth, A.Herlert, A.Kellerbauer, H.-J.Kluge, D.Lunney, L.Schweikhard, C.Yazidjian - Phys.Rev.Lett. 100, 072501 (2008)  
Restoration of the  $N = 82$  Shell Gap from Direct Mass Measurements of  $^{132,134}\text{Sn}$
- 2008EA01 M.C.Eastman, K.S.Krane - Phys.Rev. C 77, 024303 (2008)  
Neutron capture cross sections of even-mass tellurium isotopes
- 2008FA03 M.A.Famiano, R.S.Kodikara, B.M.Giacherio, V.G.Subramanian, A.Kayani - Nucl.Phys. A802, 26 (2008)  
Measurement of the  $(\text{p}, \gamma)$  cross sections of  $^{46}\text{Ti}$ ,  $^{64}\text{Zn}$ ,  $^{114}\text{Sn}$ , and  $^{116}\text{Sn}$  at astrophysically relevant energies
- 2008FE02 M.Ferraton, R.Bourgain, C.M.Petrache, D.Verney, F.Ibrahim, N.de Sereville, S.Franchoo, M.Lebois, C.Phan Viet, L.Sagui, I.Stefan, J.F.Clavelin, M.Vilmay - Eur.Phys.J. A 35, 167 (2008)  
Lifetime measurement of the six-quasiparticle isomer in  $^{140}\text{Nd}$  and evidence for an isomer above the  $19 / 2^+$  state in  $^{139}\text{Nd}$

- 2008F001      B.Fornal, R.V.F.Janssens, R.Broda, N.Marginean, S.Beghini, L.Corradi, M.P.Carpenter, G.De Angelis, F.Della Vedova, E.Farnea, E.Fioretto, A.Gadea, B.Guiot, M.Honma, W.Krolas, T.Lauritsen, S.Lunardi, P.F.Mantica, P.Mason, G.Montagnoli, D.R.Napoli, T.Otsuka, T.Pawlat, G.Pollarolo, F.Scarlassara, A.M.Stefanini, D.Seweryniak, S.Szilner, C.A.Ur, M.Trotta, J.J.Valiente-Dobon, J.Wrzesinski, S.Zhu - Phys.Rev. C 77, 014304 (2008)  
Yrast structure of the neutron-rich N = 31 isotones  $^{51}\text{Ca}$  and  $^{52}\text{Sc}$
- 2008F003      N.Fotiades, R.O.Nelson, M.Devlin, J.A.Becker - Phys.Rev. C 77, 024306 (2008)  
New levels and a lifetime measurement in  $^{204}\text{Tl}$
- 2008GA04      A.B.Garnsworthy, P.H.Regan, L.Caceres, S.Pietri, Y.Sun, D.Rudolph, M.Gorska, Zs.Podolyak, S.J.Steer, R.Hoischen, A.Heinz, F.Becker, P.Bednarczyk, P.Doornenbal, H.Geissel, J.Gerl, H.Grawe, J.Grebosz, A.Kelic, I.Kojouharov, N.Kurz, F.Montes, W.Prokopowicz, T.Saito, H.Schaffner, S.Tachenov, E.Werner-Malento, H.J.Wollersheim, G.Benzoni, B.B.Bank, C.Brandau, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, W.Gelletly, G.Ilie, J.Jolie, G.A.Jones, A.Jungclaus, M.Kmiecik, F.G.Kondev, T.Kurtukian-Nieto, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, M.Pfutzner, S.Schwertel, T.Shizuma, A.J.Simons, P.M.Walker, O.Wieland, F.R.Xu - Phys.Lett. B 660, 326 (2008)  
Neutron-proton pairing competition in N = Z nuclei: Metastable state decays in the proton dripline nuclei  $^{82}_{41}\text{Nb}$  and  $^{86}_{43}\text{Tc}$
- 2008GR03      G.F.Grinyer, P.Finlay, C.E.Svensson, G.C.Ball, J.R.Leslie, R.A.E.Austin, D.Bandyopadhyay, A.Chaffey, R.S.Chakrawarthy, P.E.Garrett, G.Hackman, B.Hyland, R.Kanungo, K.G.Leach, C.M.Mattoon, A.C.Morton, C.J.Pearson, A.A.Phillips, J.J.Ressler, F.Sarazin, H.Savajols, M.A.Schumaker, J.Wong - Phys.Rev. C 77, 015501 (2008)  
High-precision half-life determination for the superallowed  $\beta^+$  emitter  $^{62}\text{Ga}$
- 2008GR04      T.Grahn, A.Dewald, O.Moller, R.Julin, C.W.Beausang, S.Christen, I.G.Darby, S.Eeckhaudt, P.T.Greenlees, A.Gorgen, K.Helariutta, J.Jolie, P.Jones, S.Juutinen, H.Kettunen, T.Kroll, R.Krucken, Y.Le Coz, M.Leino, A.-P.Leppanen, P.Maierbeck, D.A.Meyer, B.Melon, P.Nieminne, M.Nyman, R.D.Page, J.Pakarinen, P.Petkov, P.Rahkila, B.Saha, M.Sandzelius, J.Saren, C.Scholey, J.Uusitalo, M.Bender, P.-H.Heenen - Nucl.Phys. A801, 83 (2008)  
Lifetimes of intruder states in  $^{186}\text{Pb}$ ,  $^{188}\text{Pb}$  and  $^{194}\text{Po}$
- 2008GU02      G.Gurdal, C.W.Beausang, D.S.Brenner, H.Ai, R.F.Casten, B.Crider, A.Heinz, E.Williams, D.J.Hartley, M.P.Carpenter, A.A.Hecht, R.V.F.Janssens, T.Lauritsen, C.J.Lister, R.Raabe, D.Seweryniak, S.Zhu, J.X.Saladin - Phys.Rev. C 77, 024314 (2008)  
Measurement of conversion coefficients in normal and triaxial strongly deformed bands in  $^{167}\text{Lu}$
- 2008HA04      J.Hasper, S.Muller, D.Savran, L.Schnorrenberger, K.Sonnabend, A.Zilges - Phys.Rev. C 77, 015803 (2008)  
Investigation of photoneutron reactions close to and above the neutron emission threshold in the rare earth region

- 2008HE01 M.Heil, F.Kappeler, E.Uberseder, R.Gallino, M.Pignatari - Phys.Rev. C 77, 015808 (2008)  
Neutron capture cross sections for the weak s process in massive stars
- 2008HI03 K.Hilgers, H.H.Coenen, S.M.Qaim - Appl.Radiat.Isot. 66, 545 (2008)  
Production of the therapeutic radionuclides  $^{193m}\text{Pt}$  and  $^{195m}\text{Pt}$  with high specific activity via  $\alpha$ -particle-induced reactions on  $^{192}\text{Os}$
- 2008IM01 H.Imao, K.Ishida, N.Kawamura, T.Matsuzaki, Y.Matsuda, A.Toyoda, P.Strasser, M.Iwasaki, K.Nagamine - Phys.Lett. B 658, 120 (2008)  
Density effect in d-d muon-catalyzed fusion with ortho- and para-enriched D<sub>2</sub>
- 2008JA01 M.Jaskola - Acta Phys.Pol. B39, 695 (2008)  
A Study of Levels in  $^{149}\text{Nd}$  Using the (d, p) and (d, t) Reactions
- 2008JU02 A.Jungclaus, V.Modamio, J.L.Egido, R.Schwengner, A.Algora, D.Bazzacco, D.Escriv, M.A.Fernandez, L.M.Fraile, S.Lenzi, N.Marginean, T.Martinez, D.R.Napoli, C.A.Ur - Phys.Rev. C 77, 024310 (2008)  
Revised and extended level scheme of the doubly-odd nucleus  $^{188}\text{Ir}$
- 2008KA01 B.P.Kay, S.J.Freeman, J.P.Schiffer, J.A.Clark, C.Deibel, A.Heinz, A.Parikh, C.Wrede - Phys.Lett. B 658, 216 (2008)  
High-j single-particle neutron states outside the N = 82 core
- 2008KA04 R.Kanungo, A.N.Andreyev, L.Buchmann, B.Davids, G.Hackman, D.Howell, P.Khalili, B.Mills, E.Padilla-Rodal, Steven C.Pieper, J.Pearson, C.Ruiz, G.Ruprecht, A.Shotter, I.Tanihata, C.Vockenhuber, P.Walden, R.B.Wiringa - Phys.Lett. B 660, 26 (2008)  
Spectroscopic factors for the  $^9\text{Li}$  ground state and N = 6 shell closure
- 2008KN01 G.N.Knyazheva, M.G.Itkis, S.V.Khlebnikov, E.M.Kozulin, V.G.Lyapin, V.A.Rubchenya, W.Trzaska - Phys.Part. and Nucl.Lett. 5, 21 (2008); Pisma Zh.Fiz.Elem.ChastAtom.Yadra No.1 [143], 40 (2008)  
The influence of the entrance channel on the formation and decay of the compound nucleus  $^{250}\text{No}$
- 2008K002 K.Kondo, I.Murata, K.Ochiai, N.Kubota, H.Miyamaru, C.Konno, T.Nishitani - J.Nucl.Sci.Technol.(Tokyo) 45, 103 (2008)  
Measurement and Analysis of Neutron-Induced Alpha Particle Emission Double-Differential Cross Section of Carbon at 14.2 MeV
- 2008K003 J.Kownacki, M.Kisielski, M.Kowalczyk, Ch.Droste, T.Morek, E.Ruchowska, J.Srebrny, M.Wolinska-Cichocka, M.Palacz, A.Korman, J.Andrzejewski, A.Krol, J.Perkowski, R.Lieder, J.Mierzejewski, I.Sankowska - Acta Phys.Pol. B39, 489 (2008)  
Observation of a New (25 / 2<sup>+</sup>) Isomer in  $^{121}\text{Sb}$
- 2008KR01 A.Krol, J.Andrzejewski, J.Perkowski, K.Sobczak, M.Kisielski, M.Kowalczyk, J.Kownacki, A.Korman - Acta Phys.Pol. B39, 495 (2008)

- The Internal Conversion Electron and Gamma Spectroscopy in the  $^{14}\text{N} + ^{197}\text{Au}$  Reaction Measurements
- 2008KU01 A.Kumar, H.Singh, R.Kumar, I.M.Govil, R.P.Singh, R.Kumar, B.K.Yogi, K.S.Golda, S.K.Datta, G.Viesti - Nucl.Phys. A798, 1 (2008)  
Pre-compound neutron evaporation in low energy heavy ion fusion reactions
- 2008KU06 J.Kurcewicz, Yu.A.Litvinov, F.Bosch, H.Geissel, Z.Patyk, N.Winckler, L.Batist, K.Beckert, P.Beller, D.Boutin, C.Brandau, L.Chen, C.Dimopoulou, T.Faestermann, L.Grigorenko, P.Kienle, R.Knobel, C.Kozhuharov, S.A.Litvinov, L.Maier, M.Mazzocco, F.Montes, G.Munzenberg, A.Musumarra, C.Nociforo, F.Nolden, M.Pfutzner, W.Plass, C.Scheidenberger, M.Steck, B.Sun, H.Weick, M.Winkler - Acta Phys.Pol. B39, 501 (2008)  
Orbital Electron Capture and  $\beta^+$  Decay of H-Like  $^{140}\text{Pr}$  Ions
- 2008LA01 V.Lapoux, N.Alamanos, F.Auger, Y.Blumenfeld, J.-M.Casandjian, M.Chartier, M.D.Cortina-Gil, V.Fekou-Youmbi, A.Gillibert, M.Mac Cormick, F.Marechal, F.Marie, W.Mittig, F.de Oliveira Santos, N.A.Orr, A.N.Ostrowski, S.Ottini-Hustache, P.Roussel-Chomaz, J.-A.Scarpaci, J.-L.Sida, T.Suomijarvi, J.S.Winfield - Phys.Lett. B 658, 198 (2008)  
Virtual coupling potential for elastic scattering of  $^{10,11}\text{Be}$  on proton and carbon targets
- 2008LI02 G.Lian, J.Su, B.-X.Wang, C.Jiang, X.-X.Bai, S.Zeng, Y.-N.Zheng, S.-Y.Zhu, L.-H.Zhu, W.-P.Liu, Z.-H.Li, Y.-B.Wang, B.Guo, Y.-J.Li, X.Qin - Chin.Phys.Lett. 25, 70 (2008)  
Enhancement of  $\beta^+$ -Decay Rate of  $^{22}\text{Na}$  in Metal Pd at Low Temperature
- 2008LI03 Y.-J.Li, Z.-H.Li, B.Guo, Y.-B.Wang, X.-X.Bai, J.Su, G.Lian, S.Zeng, B.-X.Wang, X.Qin, C.Jiang, W.-P.Liu, W.-J.Zhao - Chin.Phys.Lett. 25, 455 (2008)  
Measurement of Angular Distribution for the  $^8\text{Li}(p, d)^7\text{Li}$  Reaction
- 2008LI08 E.O.Lieder, A.A.Pasternak, R.M.Lieder, A.D.Efimov, V.M.Mikhajlov, B.G.Carlsson, I.Ragnarsson, W.Gast, Ts.Venkova, T.Morek, S.Chmel, G.de Angelis, D.R.Napoli, A.Gadea, D.Bazzacco, R.Menegazzo, S.Lunardi, W.Urban, Ch.Droste, T.Rzaca-Urban, G.Duchene, A.Dewald - Eur.Phys.J. A 35, 135 (2008)  
Investigation of lifetimes in quadrupole bands of  $^{142}\text{Gd}$
- 2008LJ01 J.Ljungvall, A.Gorgen, M.Girod, J.-P.Delaroche, A.Dewald, C.Dossat, E.Farnea, W.Korten, B.Melon, R.Menegazzo, A.Obertelli, R.Orlandi, P.Petkov, T.Pissulla, S.Siem, R.P.Singh, J.Srebrny, Ch.Theisen, C.A.Ur, J.J.Valiente-Dobon, K.O.Zell, M.Zielinska - Phys.Rev.Lett. 100, 102502 (2008)  
Shape Coexistence in Light Se Isotopes: Evidence for Oblate Shapes
- 2008MA01 P.F.Mantica, R.Broda, H.L.Crawford, A.Damaske, B.Fornal, A.A.Hecht, C.Hoffman, M.Horoi, N.Hotelting, R.V.F.Janssens, J.Pereira, J.S.Pinter, J.B.Stoker, S.L.Tabor, T.Sumikama, W.B.Walters, X.Wang, S.Zhu - Phys.Rev. C 77, 014313 (2008)  
 $\beta$  decay of neutron-rich  $^{53-56}\text{Ca}$

## REFERENCES

---

- 2008ME02 A.F.Mertz, E.A.McCutchan, R.F.Casten, R.J.Casperson, A.Heinz, B.Huber, R.Luttke, J.Qian, B.Shoraka, J.R.Terry, V.Werner, E.Williams, R.Winkler - Phys.Rev. C 77, 014307 (2008)  
First experimental test of X(5) critical point symmetry in the  $A \sim 130$  mass region:  
Low-spin states and the collective structure of  $^{130}\text{Ce}$
- 2008MI01 L.C.Mihairescu, C.Borcea, A.J.Koning, A.Pavlik, A.J.M.Plompen - Nucl.Phys. A 799, 1 (2008)  
High resolution measurement of neutron inelastic scattering and  $(n, 2n)$  cross-sections for  $^{209}\text{Bi}$
- 2008MI03 K.Miernik, W.Dominik, Z.Janas, M.Pfutzner, L.Grigorenko, C.Bingham, H.Czyrkowski, M.Cwiok, I.Darby, R.Dabrowski, T.Ginter, R.Grzywacz, M.Karny, A.Korgul, W.Kusmierz, S.Liddick, M.Rajabali, K.Rykaczewski, A.Stolz - Acta Phys.Pol. B39, 477 (2008)  
Studies of Charged Particle Emission in the Decay of  $^{45}\text{Fe}$
- 2008M002 C.Monrozeau, E.Khan, Y.Blumenfeld, C.E.Demonchy, W.Mittig, P.Roussel-Chomaz, D.Beaumel, M.Caamano, D.Cortina-Gil, J.P.Ebran, N.Frascaria, U.Garg, M.Gelin, A.Gillibert, D.Gupta, N.Keeley, F.Marechal, A.Obertelli, J-A.Scarpaci - Phys.Rev.Lett. 100, 042501 (2008)  
First Measurement of the Giant Monopole and Quadrupole Resonances in a Short-Lived Nucleus:  $^{56}\text{Ni}$
- 2008MU05 M.Mukherjee, D.Beck, K.Blaum, G.Bollen, P.Delahaye, J.Dilling, S.George, C.Guenaut, F.Herfurth, A.Herbauer, H.-J.Kluge, U.Koster, D.Lunney, S.Schwarz, L.Schweikhart, C.Yazidjian - Eur.Phys.J. A 35, 31 (2008)  
Mass measurements and evaluation around  $A = 22$
- 2008NA01 S.Nakamura, K.Furutaka, H.Harada, T.Katoh - J.Nucl.Sci.Technol.(Tokyo) 45, 116 (2008)  
Thermal-Neutron Capture Cross Sections and Resonance Integrals of the  $^{80}\text{Se}(n, \gamma)^{81m, 81g}\text{Se}$  Reactions
- 2008NA03 K.Nagatsu, T.Fukumura, M.Takei, F.Szelecsenyi, Z.Kovacs, K.Suzuki - Nucl.Instrum.Methods Phys.Res. B266, 709 (2008)  
Measurement of thick target yields of the  $^{nat}\text{S}(\alpha, x)^{34m}\text{Cl}$  nuclear reaction and estimation of its excitation function up to 70 MeV
- 2008NE01 S.L.Nelson, K.E.Gregorich, I.Dragojevic, M.A.Garcia, J.M.Gates, R.Sudowe, H.Nitsche - Phys.Rev.Lett. 100, 022501 (2008)  
Lightest Isotope of Bh Produced via the  $^{209}\text{Bi}(^{52}\text{Cr}, n)^{260}\text{Bh}$  Reaction
- 2008NG01 V.D.Nguyen, D.K.Pham, T.T.Kim, T.S.Le, Y.S.Lee, G.Kim, Y.Oh, H.-S.Lee, M.-H.Cho, I.S.Ko, W.Namkung - Nucl.Instrum.Methods Phys.Res. B266, 21 (2008)  
Measurement of thermal neutron cross-sections and resonance integrals for  $^{179}\text{Hf}(n, \gamma)^{180m}\text{Hf}$  and  $^{180}\text{Hf}(n, \gamma)^{181}\text{Hf}$  reactions at the Pohang neutron facility

- 20080H02 A.Ohrn, J.Bломgren, P.Andersson, A.Atac, C.Gustavsson, J.Klug, P.Mermod, S.Pomp, P.Wolniewicz, M.Osterlund, L.Nilsson, B.Bergenwall, K.Elmgren, N.Olsson, U.Tippawan, S.Dangtip, P.Phansuke, P.Nadel-Turonski, O.Jonsson, A.Prokofiev, P.-U.Renberg, V.Bildeanu, C.Le Brun, J.F.Lecolley, F.R.Lecolley, M.Louvel, N.Marie-Noury, C.Schweitzer, Ph.Eudes, F.Haddad, C.Lebrun, E.Bauge, J.P.Delaroche, M.Girod, X.Ledoux, K.Amos, S.Karataglidis, R.Crespo, W.Haider - Phys.Rev. C 77, 024605 (2008)  
Elastic scattering of 96 MeV neutrons from iron, yttrium, and lead
- 2008PE02 M.G.Pellegriti, N.L.Achouri, C.Angulo, J.-C.Angelique, E.Berthoumieux, E.Casarejos, M.Couder, T.Davinson, C.Ghag, A.St.Murphy, N.A.Orr, I.Ray, I.G.Stefan, P.Descouvemont - Phys.Lett. B 659, 864 (2008)  
Evidence for core excitation in single-particle states of  $^{19}\text{Na}$
- 2008PE04 K.Perajarvi, J.Turunen, J.Hakala, A.Jokinen, I.D.Moore, H.Penttila, A.Saastamoinen, T.Siiskonen, H.Toivonen, J.Aysto - Appl.Radiat.Isot. 66, 530 (2008)  
The decay of  $^{133m}\text{Xe}$
- 2008RA03 C.Rauth, D.Ackermann, K.Blaum, M.Block, A.Chaudhuri, Z.Di, S.Eliseev, R.Ferrer, D.Habs, F.Herfurth, F.P.Hessberger, S.Hofmann, H.-J.Kluge, G.Maero, A.Martin, G.Marx, M.Mukherjee, J.B.Neumayr, W.R.Plass, S.Rahaman, D.Rodriguez, C.Scheidenberger, L.Schweikhard, P.G.Thirolf, G.Vorobjev, C.Weber - Phys.Rev.Lett. 100, 012501 (2008)  
First Penning Trap Mass Measurements beyond the Proton Drip Line
- 2008RA04 D.R.Rao, K.V.Sai, M.Sainath, R.Gowrishankar, K.Venkataramaniah - Appl.Radiat.Isot. 66, 377 (2008)  
Electron-gamma spectroscopic measurements in  $^{131}\text{Cs}$
- 2008RA06 S.Ray, N.S.Pattabiraman, Krishichayan, A.Chakraborty, S.Mukhopadhyay, S.S.Ghugre, S.N.Chintalapudi, A.K.Sinha, U.Garg, S.Zhu, B.Kharraja, D.Almehed - Phys.Rev. C 77, 024305 (2008)  
Level structure of  $^{103}\text{Ag}$  at high spin
- 2008RA07 R.Rafiei, R.G.Thomas, D.J.Hinde, M.Dasgupta, C.R.Morton, L.R.Gasques, M.L.Brown, M.D.Rodriguez - Phys.Rev. C 77, 024606 (2008)  
Strong evidence for quasifission in asymmetric reactions forming  $^{202}\text{Po}$
- 2008RE01 R.Reifarth, M.Heil, C.Forssen, U.Besserer, A.Couture, S.Dababneh, L.Dorr, J.Gorres, R.C.Haight, F.Kappeler, A.Mengoni, S.O'Brien, N.Patronis, R.Plag, R.S.Rundberg, M.Wiescher, J.B.Wilhelmy - Phys.Rev. C 77, 015804 (2008)  
The  $^{14}\text{C}(\text{n}, \gamma)$  cross section between 10 keV and 1 MeV

- 2008R002 J.Robin, Th.Byrski, G.Duchene, F.A.Beck, D.Curien, N.Dubray, J.Dudek, A.Gozdz, A.Odahara, N.Schunck, N.Adimi, D.E.Appelbe, P.Bednarczyk, A.Bracco, B.Cederwall, S.Courtin, D.M.Cullen, O.Dorvaux, S.Ertuck, G.de France, B.Gall, P.Joshi, S.L.King, A.Korichi, K.Lagergren, G.Lo Bianco, S.Leoni, A.Lopez-Martens, S.Lunardi, B.Million, A.Nourredine, E.Pachoud, E.S.Paul, C.Petrache, I.Piquerias, N.Redon, A.Saltarelli, J.Simpson, O.Stezowski, R.Venturelli, J.P.Vivien, K.Zuber - Phys.Rev. C 77, 014308 (2008)  
Extended investigation of superdeformed bands in  $^{151,152}\text{Tb}$  nuclei
- 2008SA01 M.Sato, H.Bhang, J.Chiba, S.Choi, Y.Fukuda, T.Hanaki, R.S.Hayano, M.Iio, T.Ishikawa, S.Ishimoto, T.Ishiwatari, K.Itahashi, M.Iwai, M.Iwasaki, P.Kienle, J.H.Kim, Y.Matsuda, H.Ohnishi, S.Okada, H.OutOf, S.Suzuki, T.Suzuki, D.Tomono, E.Widmann, T.Yamazaki, H.Yim - Phys.Lett. B 659, 107 (2008)  
Search for strange tribaryon states in the inclusive  $^4\text{He}(\text{K}_{\text{stopped}}^-, \text{p})$  reaction
- 2008SA02 R.Sanchez, D.Loaiza, R.Kimball, D.Hayes, C.Cappiello, M.Chadwick - Nucl.Sci.Eng. 158, 1 (2008)  
Criticality of a  $^{237}\text{Np}$  Sphere
- 2008SA03 Y.Satou, T.Nakamura, N.Fukuda, T.Sugimoto, Y.Kondo, N.Matsui, Y.Hashimoto, T.Nakabayashi, T.Okumura, M.Shinohara, T.Motobayashi, Y.Yanagisawa, N.Aoi, S.Takeuchi, T.Gomi, Y.Togano, S.Kawai, H.Sakurai, H.J.Ong, T.K.Onishi, S.Shimoura, M.Tamaki, T.Kobayashi, H.Otsu, Y.Matsuda, N.Endo, M.Kitayama, M.Ishihara - Phys.Lett. B 660, 320 (2008)  
Unbound excited states in  $^{19,17}\text{C}$
- 2008SA04 M.-D.Salsac, F.Haas, S.Courtin, A.Algora, C.Beck, S.Beghini, B.R.Behera, R.Chapman, L.Corradi, Z.Dombradi, E.Farnea, E.Fioretto, A.Gadea, D.G.Jenkins, A.Latina, D.Lebhertz, S.Lenzi, X.Liang, N.Marginean, G.Montagnoli, D.Napoli, P.Papka, I.Pokrovski, G.Pollarolo, M.Rousseau, E.Sahin, A.Sanchez i Zafra, F.Scarlassara, D.Sohler, A.M.Stefanini, S.Szilner, M.Trotta, C.Ur, F.Della Vedova, Z.M.Wang, K.T.Wiedemann - Nucl.Phys. A801, 1 (2008)  
Decay of a narrow and high spin  $^{24}\text{Mg} + ^{24}\text{Mg}$  resonance
- 2008SA05 M.Sanchez-Vega, H.Mach, R.B.E.Taylor, B.Fogelberg, A.Lindroth, A.J.Aas, P.Dendooven, A.Honkanen, M.Huhta, G.Lhersonneau, M.Oinonen, J.M.Parmonen, H.Penttila, J.Aysto, J.R.Persson, J.Kurpeta - Eur.Phys.J. A 35, 159 (2008)  
Studies of quadrupole collectivity in the  $\gamma$ -soft  $^{106}\text{Ru}$
- 2008SAZZ Y.Satou, T.Nakamura, N.Fukuda, T.Sugimoto, Y.Kondo, N.Matsui, Y.Hashimoto, T.Nakabayashi, T.Okumura, M.Shinohara, T.Motobayashi, Y.Yanagisawa, N.Aoi, S.Takeuchi, T.Gomi, Y.Togano, S.Kawai, H.Sakurai, H.J.Ong, T.K.Onishi, S.Shimoura, M.Tamaki, T.Kobayashi, H.Otsu, Y.Matsuda, N.Endo, M.Kitayama, M.Ishihara - RIKEN-NC-NP-18 (2008)  
Unbound excited states in  $^{19,17}\text{C}$
- 2008SC03 J.P.Schiffer, S.J.Freeman, J.A.Clark, C.Deibel, C.R.Fitzpatrick, S.Gros, A.Heinz, D.Hirata, C.L.Jiang, B.P.Kay, A.Parikh, P.D.Parker, K.E.Rehm, A.C.C.Villari, V.Werner, C.Wrede - Phys.Rev.Lett. 100, 112501 (2008)  
Nuclear Structure Relevant to Neutrinoless Double  $\beta$  Decay:  $^{76}\text{Ge}$  and  $^{76}\text{Se}$

## REFERENCES

---

- 2008SI02 P.P.Singh, B.P.Singh, M.K.Sharma, Unnati, D.P.Singh, R.Prasad, R.Kumar, K.S.Golda - Phys.Rev. C 77, 014607 (2008)  
Influence of incomplete fusion on complete fusion: Observation of a large incomplete fusion fraction at  $E \approx 5\text{-}7 \text{ MeV} / \text{nucleon}$
- 2008SI05 D.Singh, M.Afzal Ansari, R.Ali, N.P.M.Sathik, M.Ismail - Chin.J.Phys.(Taiwan) 46, 27 (2008)  
A Study of Excitation Functions for Some Residues Produced in  $^{16}\text{O} + ^{74}\text{Ge}$  System Below 7 MeV / nucleon
- 2008SM01 D.L.Smith, H.Mach, H.Penttila, H.Bradley, J.Aysto, V.-V.Elomaa, T.Eronen, D.G.Ghita, J.Hakala, M.Hauth, A.Jokinen, P.Karvonen, T.Kessler, W.Kurcewicz, H.Lehmann, I.D.Moore, J.Nyberg, S.Rahaman, J.Rissanen, J.Ronkainen, P.Ronkanen, A.Saastamoinen, T.Sonoda, O.Steczkiewicz, C.Weber - Phys.Rev. C 77, 014309 (2008)  
Lifetime measurements of the negative-parity  $7^-$  and  $8^-$  states in  $^{122}\text{Cd}$
- 2008ST01 N.J.Stone, K.van Esbroeck, J.Rikovska Stone, M.Honma, T.Giles, M.Veskovic, G.White, A.Wohr, V.I.Mishin, V.N.Fedoseyev, U.Koster, P.F.Mantica, W.B.Walters - Phys.Rev. C 77, 014315 (2008)  
Nuclear dipole moment of  $^{71}\text{Cu}$  from online  $\beta$ -NMR measurements
- 2008ST04 I.Stefanescu, G.Georgiev, D.L.Balabanski, N.Biasi, A.Blavzhev, N.Bree, J.Cederkall, T.E.Cocolios, T.Davinson, J.Diriken, J.Eberth, A.Ekstrom, D.Fedorov, V.N.Fedossev, L.M.Fraile, S.Franchoo, K.Gladnishki, M.Huyse, O.Ivanov, V.Ivanov, J.Iwanicki, J.Jolie, T.Konstantinopoulos, Th.Kroll, R.Krucken, U.Koster, A.Lagoyannis, G.Lo Bianco, P.Maierbeck, B.A.Marsh, P.Napiorkowski, N.Patronis, D.Pauwels, G.Rainovski, P.Reiter, K.Riisager, M.Seliverstov, G.Sletten, J.Van de Walle, P.Van Duppen, D.Voulot, N.Warr, F.Wenander, K.Wrzosek - Phys.Rev.Lett. 100, 112502 (2008)  
Interplay between Single-Particle and Collective Effects in the Odd-A Cu Isotopes beyond  $N = 40$
- 2008TA03 S.K.Tandel, A.J.Knox, C.Parnell-Lampen, U.S.Tandel, P.Chowdhury, M.P.Carpenter, R.V.F.Janssens, T.L.Khoo, T.Lauritsen, C.J.Lister, D.Seweryniak, X.Wang, S.Zhu, D.J.Hartley, J.-ye.Zhang - Phys.Rev. C 77, 024313 (2008)  
Search for strongly deformed structures and observation of multiple nucleon alignments in  $^{174}\text{W}$
- 2008TE02 J.R.Terry, B.A.Brown, C.M.Campbell, J.M.Cook, A.D.Davies, D.-C.Dinca, A.Gade, T.Glasmacher, P.G.Hansen, B.M.Sherrill, H.Zwahlen, D.Bazin, K.Yoneda, J.A.Tostevin, T.Otsuka, Y.Utsuno, B.Pritychenko - Phys.Rev. C 77, 014316 (2008)  
Single-neutron knockout from intermediate energy beams of  $^{30,32}\text{Mg}$ : "Mapping the transition into the "island of inversion"
- 2008TE03 S.Terashima, H.Sakaguchi, H.Takeda, T.Ishikawa, M.Itoh, T.Kawabata, T.Murakami, M.Uchida, Y.Yasuda, M.Yosoi, J.Zenihiro, H.P.Yoshida, T.Noro, T.Ishida, S.Asaji, T.Yonemura - Phys.Rev. C 77, 024317 (2008)

- Proton elastic scattering from tin isotopes at 295 MeV and systematic change of neutron density distributions
- 2008UD01 Md.S.Uddin, M.Baba - *Appl.Radiat.Isot.* 66, 208 (2008)  
Proton-induced activations cross-sections of the short-lived radionuclides formation on molybdenum
- 2008UD02 M.S.Uddin, M.U.Khandaker, K.S.Kim, Y.S.Lee, M.W.Lee, G.N.Kim - *Nucl.Instrum.Methods Phys.Res. B266*, 13 (2008)  
Excitation functions of the proton induced nuclear reactions on natural zirconium
- 2008UD03 M.S.Uddin, M.Baba, M.Hagiwara, S.K.A.Latif, S.M.Qaim - *Radiochim.Acta* 96, 67 (2008)  
Excitation functions for the formation of some short-lived products in proton-induced reactions on silver
- 2008VA03 J.J.Valiente-Dobon, C.E.Svensson, A.V.Afanasyev, I.Ragnarsson, C.Andreoiu, D.E.Appelbe, R.A.E.Austin, G.C.Ball, J.A.Cameron, M.P.Carpenter, R.M.Clark, M.Cromaz, D.Dashdorj, P.Fallon, S.J.Freeman, P.E.Garrett, A.Gorgen, G.F.Grinyer, D.F.Hodgson, B.Hyland, D.Jenkins, F.Johnston-Theasby, P.Joshi, N.S.Kelsall, A.O.Macchiavelli, D.Mengoni, F.Moore, G.Mukherjee, A.A.Phillips, W.Reviol, D.Sarantites, M.A.Schumaker, D.Seweryniak, M.B.Smith, J.C.Waddington, R.Wadsworth, D.Ward - *Phys.Rev. C* 77, 024312 (2008)  
Low-spin lifetime measurements in  $^{74}\text{Kr}$
- 2008VI02 A.Vitez, A.Krasznahorkay, J.Gulyas, M.Csatlos, L.Csige, Z.Gacs, A.Krasznahorkay, Jr., B.M.Nyako, F.W.N.de Boer, T.J.Ketel, J.van Klinken - *Acta Phys.Pol. B39*, 483 (2008)  
Anomalous Internal Pair Creation in  $^8\text{Be}$  as a Signature of the Decay of a New Particle
- 2008WE01 S.Weyer, A.D.Anbar, A.Gerdes, G.W.Gordon, T.J.Algeo, E.A.Boyle - *Geochim.Cosmochim.Act.* 72, 345 (2008)  
Natural fractionation of  $^{238}\text{U}$  /  $^{235}\text{U}$
- 2008WI01 J.A.Winger, S.V.Ilyushkin, A.Korgul, C.J.Gross, K.P.Rykaczewski, J.C.Batchelder, C.Goodin, R.Grzywacz, J.H.Hamilton, W.Krolas, S.N.Liddick, C.Mazzocchi, C.Nelson, S.Padgett, A.Piechaczek, M.M.Rajabali, D.Shapira, E.F.Zganjar - *Acta Phys.Pol. B39*, 525 (2008)  
Decay Studies of Very Neutron Rich Nuclei Near  $^{78}\text{Ni}$
- 2008XI03 X.J.Xia, W.Ding, B.Zhang, X.G.Long, S.Z.Luo, S.M.Peng, R.Hutton, L.Q.Shi - *Nucl.Instrum.Methods Phys.Res. B266*, 705 (2008)  
Cross-section for proton-tritium scattering from 1.4 to 3.4 MeV at the laboratory angle of 165 degrees
- 2008YA05 T.Yamagata, H.Akimune, S.Nakayama, Y.Banshou, M.Fujiwara, K.Fushimi, M.B.Greenfield, K.Hara, K.Y.Hara, H.Hashimoto, H.Ikemizu, K.Kawase, M.Kinoshita, K.Nakanishi, M.Ohta, M.Sakama, M.Tanaka, H.Utsunomiya, N.Warashina, M.Yosoi - *Phys.Rev. C* 77, 021303 (2008)

## REFERENCES

---

- Evidence for charged-particle decay of dipole-excited  $^4\text{H}$  clusters embedded in  $^6\text{He}$  and  $^7\text{He}$
- 2008ZA01 D.Zakoucky, J.R.Stone, G.Goldring, N.J.Stone, N.Severijns, M.Hass, T.Giles, U.Koester, I.S.Kraev, S.Lakshmi, M.Lindroos, F.Wauters - Acta Phys.Pol. B39, 411 (2008)  
Parity Non-Conservation Observed in Nuclear  $\gamma$ -Decay of  $^{180m}\text{Hf}$
- 2008ZE01 R.G.T.Zegers, E.F.Brown, H.Akimune, Sam M.Austin, A.M.van den Berg, B.A.Brown, D.A.Chamulak, Y.Fujita, M.Fujiwara, S.Gales, M.N.Harakeh, H.Hashimoto, R.Hayami, G.W.Hitt, M.Itoh, T.Kawabata, K.Kawase, M.Kinoshita, K.Nakanishi, S.Nakayama, S.Okumura, Y.Shimbara, M.Uchida, H.Ueno, T.Yamagata, M.Yosoi - Phys.Rev. C 77, 024307 (2008)  
Gamow-Teller strength for the analog transitions to the first  $T = 1 / 2$ ,  $J^\pi = 3 / 2^-$  states in  $^{13}\text{C}$  and  $^{13}\text{N}$  and the implications for type Ia supernovae
- 2008ZI01 M.Zielinska, A.Goergen, A.Burger, W.Catford, E.Clement, C.Dossat, J.Iwanicki, W.Korten, J.Ljungvall, P.J.Napiorkowski, D.Pietak, G.Sletten, J.Srebrny, Ch.Theisen, K.Wrzosek - Acta Phys.Pol. B39, 519 (2008)  
Coulomb Excitation of Neutron-Rich  $^{44}\text{Ar}$  at SPIRAL