# Recent References:
# October 1, 2006 to December 31, 2006

National Nuclear Data Center, Brookhaven National Laboratory

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This document lists experimental references added to Nuclear Science References (NSR) during the period October 1, 2006 to December 31, 2006. The first section lists keynumbers and keywords sorted by mass and nuclide. The second section lists all references, ordered by keynumber.

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## Contents

# Keynumbers and Keywords

## A=1

| | | |
|---|---|---|
| $^{1}$n | 2006AB56 | NUCLEAR REACTIONS $^{1}$H(p, $\pi^{+}$), (p, p$\pi^{+}$), (p, p$\pi^{0}$), E at 0.95 GeV / c; measured $\sigma$, $\sigma$(E, $\theta$). Comparison with previous results and model predictions. JOUR ZAANE 30 443 |
| | 2006AH05 | NUCLEAR REACTIONS $^{1}$H(polarized $\gamma$, $\pi^{+}$), E=450-790 MeV; measured $\sigma$, $\sigma(\theta)$, polarization observables. JOUR PRVCA 74 045204 |
| | 2006BA58 | NUCLEAR MOMENTS $^{1}$n; measured upper limit for neutron electric dipole moment. JOUR PRLTA 97 131801 |
| | 2006KI13 | NUCLEAR REACTIONS $^{1}$H(polarized d, 2p), E=130 MeV; measured $\sigma(\theta)$; deduced Coulomb effects. Comparison with coupled-channel model. JOUR PYLBB 641 23 |
| | 2006KO40 | NUCLEAR REACTIONS $^{3}$H(d, n), E=350 keV; measured En. $^{19}$F, $^{27}$Al(n, pX), (n, dX), (n, tX), (n, $\alpha$X), E=14 MeV; measured particle spectra, $\sigma(\theta)$. $^{1}$H(n, p), E=14 MeV; measured $\sigma(\theta)$. Application to fusion reactor modeling discussed. JOUR NIMAE 568 723 |
| | 2006NI13 | RADIOACTIVITY $^{1}$n($\beta^{-}$); measured E$\gamma$, $\beta\gamma$-, (proton)$\gamma$-coin; deduced branching ratio for radiative decay. JOUR NATUA 444 1059 |
| | 2006WA25 | NUCLEAR REACTIONS $^{1}$H($\nu$, $\pi^{+}$), E=0.5-1.4 GeV; measured $\sigma$. JOUR NPBSE 159 50 |
| $^{1}$H | 2006AB42 | NUCLEAR REACTIONS $^{1}$H(d, 2p$\pi^{-}$), E=759 MeV; measured Ep, En, angular distributions; deduced quasifree reaction features. JOUR ZAANE 29 353 |
| | 2006AB56 | NUCLEAR REACTIONS $^{1}$H(p, $\pi^{+}$), (p, p$\pi^{+}$), (p, p$\pi^{0}$), E at 0.95 GeV / c; measured $\sigma$, $\sigma$(E, $\theta$). Comparison with previous results and model predictions. JOUR ZAANE 30 443 |
| | 2006BE48 | NUCLEAR REACTIONS $^{1}$H(polarized $\gamma$, $\pi^{0}$), E=144-168, 280, 300, 320, 340, 360, 380 MeV; measured $\sigma$, photon asymmetry. $^{1}$H($\gamma$, X), E=620-820 MeV; measured invariant mass spectra, $\eta$ production $\sigma$. JOUR ZAANE 28 s01 173 |
| | 2006BO29 | NUCLEAR REACTIONS $^{1}$H(e, e'), E=570-670 MeV; measured $\sigma$(E, $\theta$), response functions. $^{1}$H deduced polarizability radii. Virtual Compton scattering. JOUR PRLTA 97 212001 |
| | 2006DH03 | NUCLEAR REACTIONS $^{1,2}$H(polarized e, e'X), E=1.6, 5.7 GeV; measured virtual photon asymmetry; deduced quark polarizations. $^{1,2}$H deduced polarized structure function. Polarized target, comparison with other results, model predictions. JOUR PYLBB 641 11 |
| | 2006DH04 | NUCLEAR REACTIONS $^{1}$H(polarized e, e'), E not given; measured electron spectra, (recoil)e-coin, missing mass spectra, $\sigma(\theta)$; deduced polarizabilities, structure functions. Comparison with theory. JOUR ZAANE 28 s01 117 |
| | 2006FU12 | NUCLEAR REACTIONS $^{1}$H(polarized e, e), E=high; measured asymmetries; deduced strange quark contribution to electromagnetic form factors. JOUR NPBSE 159 121 |
| | 2006JO09 | NUCLEAR REACTIONS $^{1}$H(polarized e, e), E at 5.755 GeV / c; measured beam-target asymmetry. $^{1}$H deduced ratio of electric to magnetic form factor. JOUR PRVCA 74 035201 |

### A=1 *(continued)*

2006LY01 NUCLEAR REACTIONS $^{1}$n($\nu$, $\mu^{-}$), E $\approx$ 4-100 GeV; measured quasielastic $\sigma$. Comparison with previous results. JOUR PANUE 69 1876

2006MA64 NUCLEAR REACTIONS $^{2}$H(p, dK$^{+}$K$^{-}$), E=2.65 GeV; measured deuteron spectrum, kaon pair invariant mass spectra, angular distributions. $^{1}$n(p, X), E $\approx$ threshold; deduced $\phi$ meson production $\sigma$, $\sigma(\theta)$. JOUR PRLTA 97 142301

2006MA66 NUCLEAR REACTIONS $^{1}$H(polarized e, e'), E=570.4, 854.3 MeV; measured electron spectra, asymmetry; deduced electric, magnetic form factors. Comparison with Standard Model calculations. JOUR ZAANE 28 s01 107

2006MAZW NUCLEAR REACTIONS $^{1}$H(polarized d, d), E=130, 180 MeV; measured vector and tensor analyzing powers. Comparison with model predictions. PREPRINT nucl-ex/0611027,11/15/2006

2006NI13 RADIOACTIVITY $^{1}$n($\beta^{-}$); measured E$\gamma$, $\beta\gamma$-, (proton)$\gamma$-coin; deduced branching ratio for radiative decay. JOUR NATUA 444 1059

2006SA38 NUCLEAR REACTIONS $^{1}$H(n, n), E=194 MeV; measured backscattering $\sigma(\theta)$. Comparison with previous results. JOUR PRVCA 74 044003

## A=2

$^{2}$H

2006AB56 NUCLEAR REACTIONS $^{1}$H(p, $\pi^{+}$), (p, p$\pi^{+}$), (p, p$\pi^{0}$), E at 0.95 GeV / c; measured $\sigma$, $\sigma$(E, $\theta$). Comparison with previous results and model predictions. JOUR ZAANE 30 443

2006CUZZ NUCLEAR REACTIONS $^{7}$Li($^{7}$Li, $^{11}$B), ($^{7}$Li, $^{12}$B), E=58 MeV; $^{12}$C($^{7}$Li, $^{10}$B), E=58 MeV; measured particle spectra; deduced excitation energy spectra. $^{10,11,12}$B deduced relative yields for $\alpha$+Li and H+Be decay channels from excited states. CONF San Servolo(Fusion06),Proc,P160

2006DH03 NUCLEAR REACTIONS $^{1,2}$H(polarized e, e'X), E=1.6, 5.7 GeV; measured virtual photon asymmetry; deduced quark polarizations. $^{1,2}$H deduced polarized structure function. Polarized target, comparison with other results, model predictions. JOUR PYLBB 641 11

2006TUZZ NUCLEAR REACTIONS $^{7}$Li($^{3}$He, 2$\alpha$), E=33 MeV; measured E$\alpha$, $\alpha\alpha$-coin. $^{7}$Li(p, 2$\alpha$), E(cm)=0.2-7 MeV; deduced $\sigma$. Trojan Horse method. CONF Isle of Kos (FINUSTAR),Proc,P309

## A=3

$^{3}$H

2006CUZZ NUCLEAR REACTIONS $^{7}$Li($^{7}$Li, $^{11}$B), ($^{7}$Li, $^{12}$B), E=58 MeV; $^{12}$C($^{7}$Li, $^{10}$B), E=58 MeV; measured particle spectra; deduced excitation energy spectra. $^{10,11,12}$B deduced relative yields for $\alpha$+Li and H+Be decay channels from excited states. CONF San Servolo(Fusion06),Proc,P160

**A=3 *(continued)***

| | | |
|---|---|---|
| | 2006ZH29 | NUCLEAR REACTIONS $^{2}$H(d, $\gamma$), (d, p), E=20 keV; measured Ep, E$\gamma$, branching ratio. $^{2}$H(d, $\gamma$), E=low; deduced astrophysical S-factor. JOUR CPLEE 23 2703 |
| $^{3}$He | 2006FI06 | NUCLEAR REACTIONS $^{3}$He(p, p), (polarized p, p), E=0.99, 1.59, 2.24, 3.11, 4.02 MeV; measured $\sigma(\theta)$, Ay($\theta$). Four-body variational calculations with realistic two- and three-body interactions. JOUR PRVCA 74 034001 |
| | 2006HU16 | NUCLEAR REACTIONS $^{1,2}$H, $^{3}$He(n, n), E=low; measured scattering amplitudes. JOUR PHYBE 385-386 1365 |
| | 2006SKZX | NUCLEAR REACTIONS $^{2}$H(p, 2$\pi^{0}$), (p, $\pi^{+}\pi^{-}$), E=0.895 MeV; $^{1}$H(p, 2$\pi^{0}$), E=1.0, 1.1, 1.2 GeV; measured invariant mass spectra; deduced low-mass enhancement features. PREPRINT nucl-ex/0612016,12/11/2006 |
| | 2006SMZZ | NUCLEAR REACTIONS $^{1}$H(d, X)$^{3}$He, E at 3.095-3.180 GeV / c; measured missing mass spectra, excitation functions for neutral pion and $\eta$ production. PREPRINT nucl-ex/0612009,12/08/2006 |

## A=4

| | | |
|---|---|---|
| $^{4}$He | 2006BU18 | NUCLEAR REACTIONS $^{4}$He(e, e'), E=91, 114, 133, 150, 166, 200, 262 MeV; measured longitudinal response functions; deduced Coulomb sum. Comparison with model predictions. JOUR PYLBB 641 156 |
| | 2006KO40 | NUCLEAR REACTIONS $^{3}$H(d, n), E=350 keV; measured En. $^{19}$F, $^{27}$Al(n, pX), (n, dX), (n, tX), (n, $\alpha$X), E=14 MeV; measured particle spectra, $\sigma(\theta)$. $^{1}$H(n, p), E=14 MeV; measured $\sigma(\theta)$. Application to fusion reactor modeling discussed. JOUR NIMAE 568 723 |
| | 2006MI30 | NUCLEAR REACTIONS $^{6,7}$Li($^{6}$He, X), E=18 MeV; $^{6}$Li($^{6}$He, d$^{6}$He), E=18 MeV; measured charged particle spectra, coincidences; deduced quasi-free scattering off clusters in target nuclei. JOUR EULEE 76 801 |
| | 2006YE03 | NUCLEAR REACTIONS $^{9}$Be($^{6}$He, $^{6}$He), ($^{6}$He, $^{5}$He), ($^{6}$He, $\alpha$), E=25 MeV / nucleon; measured recoil spectra, $\sigma(\theta)$; deduced optical model parameters. $^{3}$H($^{17}$Ne, $^{16}$F), E=5 MeV / nucleon; calculated $\sigma(\theta)$. JOUR IMPEE 15 1465 |
| | 2006ZH29 | NUCLEAR REACTIONS $^{2}$H(d, $\gamma$), (d, p), E=20 keV; measured Ep, E$\gamma$, branching ratio. $^{2}$H(d, $\gamma$), E=low; deduced astrophysical S-factor. JOUR CPLEE 23 2703 |

## A=5

| | | |
|---|---|---|
| $^{5}$He | 2006SOZZ | NUCLEAR REACTIONS $^{7}$Li($^{9}$Be, t2$\alpha$), E=55, 70 MeV; measured particle spectra; deduced excitation energy spectra. $^{11}$B deduced excited state decay features. CONF San Servolo(Fusion06),Proc,P171 |

## A=6

| | | |
|---|---|---|
| $^{6}$He | 2006AN21 | NUCLEAR REACTIONS $^{4}$He(d, $\pi^{+}$), E=217.3, 218.2, 224.1 MeV; measured particle spectra, $\sigma$, $\sigma(\theta)$, anisotropies. $^{6}$He deduced halo features. JOUR NUPAB 779 47 |
| $^{6}$Li | 2005AB30 | NUCLEAR REACTIONS $^{6,7}$Li($\pi^{-}$, dX), ($\pi^{-}$, tX), E at 0.72, 0.88 GeV / c; measured particle spectra, missing mass. $^{6,7}$Li deduced cluster features. JOUR BRSPE 69 1812 |
| | 2005GE14 | NUCLEAR REACTIONS $^{9}$Be(p, $\alpha$), E=1.96-2.4 MeV; measured E$\gamma$, I$\gamma$, $\sigma$. JOUR BRSPE 69 1819 |
| | 2006HAZV | NUCLEAR REACTIONS $^{208}$Pb($^{6}$Li, d$\alpha$), E=150 MeV / nucleon; measured deuteron and $\alpha$ spectra, angular distributions. $^{2}$H($\alpha$, $\gamma$), E(cm) $\approx$ 0-1.5 MeV; deduced astrophysical S-factors. CONF Isle of Kos (FINUSTAR),Proc,P21 |
| | 2006MIZY | NUCLEAR REACTIONS $^{6,7}$Li, $^{12}$C($^{6}$He, $^{6}$He), E=17.9 MeV; $^{6}$Li($^{6}$He, $\alpha$), E=17.9 MeV; measured $\sigma(\theta)$. $^{7}$Li($^{6}$He, n$\alpha$), ($^{6}$He, 2n$\alpha$), ($^{6}$He, 3n$\alpha$), E=17.9 MeV; measured excitation energy spectra. Comparison with model predictions. CONF San Servolo(Fusion06),Proc,P154 |

## A=7

| | | |
|---|---|---|
| $^{7}$He | 2006GU22 | NUCLEAR REACTIONS $^{9}$Be($\pi^{-}$, 2pX), E at rest; measured Ep, missing mass spectra. $^{7}$He deduced possible resonance energies, widths. JOUR PANUE 69 1448 |
| | 2006WUZZ | NUCLEAR REACTIONS $^{2}$H($^{8}$Li, p), E=76 MeV; $^{2}$H($^{6}$He, p), E=69 MeV; measured Ep, $\sigma(\theta)$. $^{9}$Li, $^{7}$He deduced level energies, spectroscopic factors. CONF Isle of Kos (FINUSTAR),Proc,P332 |
| $^{7}$Li | 2005AB30 | NUCLEAR REACTIONS $^{6,7}$Li($\pi^{-}$, dX), ($\pi^{-}$, tX), E at 0.72, 0.88 GeV / c; measured particle spectra, missing mass. $^{6,7}$Li deduced cluster features. JOUR BRSPE 69 1812 |
| | 2006MIZY | NUCLEAR REACTIONS $^{6,7}$Li, $^{12}$C($^{6}$He, $^{6}$He), E=17.9 MeV; $^{6}$Li($^{6}$He, $\alpha$), E=17.9 MeV; measured $\sigma(\theta)$. $^{7}$Li($^{6}$He, n$\alpha$), ($^{6}$He, 2n$\alpha$), ($^{6}$He, 3n$\alpha$), E=17.9 MeV; measured excitation energy spectra. Comparison with model predictions. CONF San Servolo(Fusion06),Proc,P154 |
| | 2006NIZU | RADIOACTIVITY $^{7}$Be(EC); measured $T_{1/2}$ for source in various host materials; deduced no environmental dependence. PREPRINT nucl-ex/0612003,12/3/2006 |
| $^{7}$Be | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma(^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006NIZU | RADIOACTIVITY $^{7}$Be(EC); measured $T_{1/2}$ for source in various host materials; deduced no environmental dependence. PREPRINT nucl-ex/0612003,12/3/2006 |

## A=8

| | | |
|---|---|---|
| $^{8}$Li | 2006MIZY | NUCLEAR REACTIONS $^{6,7}$Li, $^{12}$C($^{6}$He, $^{6}$He), E=17.9 MeV; $^{6}$Li($^{6}$He, $\alpha$), E=17.9 MeV; measured $\sigma(\theta)$. $^{7}$Li($^{6}$He, n$\alpha$), ($^{6}$He, 2n$\alpha$), ($^{6}$He, 3n$\alpha$), E=17.9 MeV; measured excitation energy spectra. Comparison with model predictions. CONF San Servolo(Fusion06),Proc,P154 |
| $^{8}$Be | 2006DIZY | NUCLEAR REACTIONS $^{4}$He($\alpha$, $\gamma$), E(cm) $\approx$ 0.6-2.5 MeV; measured E$\gamma$, (recoil)$\gamma$-coin. CONF Isle of Kos (FINUSTAR),Proc,P378 |
| | 2006FR16 | NUCLEAR REACTIONS $^{12}$C($^{18}$O, 2$\alpha^{14}$C), E=140 MeV; measured particle spectra. $^{22}$Ne deduced level energies, possible cluster structure. JOUR JPGPE 32 2235 |
| $^{8}$B | 2006ROZY | NUCLEAR REACTIONS $^{1}$H($^{8}$B, p), E(cm)=0.5-3.2 MeV; measured Ep, $\sigma(\theta)$. $^{9}$C deduced resonance energies, widths, J, $\pi$. Thick target, R-matrix analysis, continuum shell model calculations. PREPRINT nucl-ex/0609044,9/28/2006 |

## A=9

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|---|---|---|
| $^{9}$Li | 2006BO32 | RADIOACTIVITY $^{9}$Li($\beta^-$); measured E$\alpha$, En following daughter nucleus decay. $^{9}$Be deduced levels, J, $\pi$, widths, decay branching ratios. JOUR PHSTB T125 103 |
| | 2006WUZZ | NUCLEAR REACTIONS $^{2}$H($^{8}$Li, p), E=76 MeV; $^{2}$H($^{6}$He, p), E=69 MeV; measured Ep, $\sigma(\theta)$. $^{9}$Li, $^{7}$He deduced level energies, spectroscopic factors. CONF Isle of Kos (FINUSTAR),Proc,P332 |
| $^{9}$Be | 2006BO32 | RADIOACTIVITY $^{9}$Li($\beta^-$); measured E$\alpha$, En following daughter nucleus decay. $^{9}$Be deduced levels, J, $\pi$, widths, decay branching ratios. JOUR PHSTB T125 103 |
| | 2006CUZZ | NUCLEAR REACTIONS $^{7}$Li($^{7}$Li, $^{11}$B), ($^{7}$Li, $^{12}$B), E=58 MeV; $^{12}$C($^{7}$Li, $^{10}$B), E=58 MeV; measured particle spectra; deduced excitation energy spectra. $^{10,11,12}$B deduced relative yields for $\alpha$+Li and H+Be decay channels from excited states. CONF San Servolo(Fusion06),Proc,P160 |
| | 2006YE03 | NUCLEAR REACTIONS $^{9}$Be($^{6}$He, $^{6}$He), ($^{6}$He, $^{5}$He), ($^{6}$He, $\alpha$), E=25 MeV / nucleon; measured recoil spectra, $\sigma(\theta)$; deduced optical model parameters. $^{3}$H($^{17}$Ne, $^{16}$F), E=5 MeV / nucleon; calculated $\sigma(\theta)$. JOUR IMPEE 15 1465 |
| $^{9}$C | 2006ROZY | NUCLEAR REACTIONS $^{1}$H($^{8}$B, p), E(cm)=0.5-3.2 MeV; measured Ep, $\sigma(\theta)$. $^{9}$C deduced resonance energies, widths, J, $\pi$. Thick target, R-matrix analysis, continuum shell model calculations. PREPRINT nucl-ex/0609044,9/28/2006 |

## A=10

| | | |
|---|---|---|
| $^{10}$Be | 2006SZ06 | NUCLEAR REACTIONS $^{12}$C($^{16}$O, $^{16}$O'), ($^{16}$O, $^{15}$O), ($^{16}$O, $^{14}$N), E=62-124 MeV; $^{12}$C($^{18}$O, $^{18}$O'), ($^{18}$O, $^{17}$O), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{15}$N), ($^{18}$O, $^{19}$F), ($^{18}$O, $^{20}$Ne), E=66-120 MeV; measured particle spectra, $\sigma$(E, $\theta$), $\sigma$; deduced reaction mechanism features. JOUR NUPAB 779 21 |

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

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|---|---|---|
| | 2006YE03 | NUCLEAR REACTIONS $^{9}$Be($^{6}$He, $^{6}$He), ($^{6}$He, $^{5}$He), ($^{6}$He, $\alpha$), E=25 MeV / nucleon; measured recoil spectra, $\sigma(\theta)$; deduced optical model parameters. $^{3}$H($^{17}$Ne, $^{16}$F), E=5 MeV / nucleon; calculated $\sigma(\theta)$. JOUR IMPEE 15 1465 |
| $^{10}$B | 2006CUZZ | NUCLEAR REACTIONS $^{7}$Li($^{7}$Li, $^{11}$B), ($^{7}$Li, $^{12}$B), E=58 MeV; $^{12}$C($^{7}$Li, $^{10}$B), E=58 MeV; measured particle spectra; deduced excitation energy spectra. $^{10,11,12}$B deduced relative yields for $\alpha$+Li and H+Be decay channels from excited states. CONF San Servolo(Fusion06),Proc,P160 |
| | 2006SZ07 | NUCLEAR REACTIONS $^{6}$Li, $^{11}$B, $^{16}$O, $^{19}$F(d, p$\gamma$), E=0.6-2 MeV; $^{9}$Be(d, n$\gamma$), , E=0.6-2 MeV; measured E$\gamma$, I$\gamma$; deduced $\gamma$-ray production $\sigma$, thin target yields. JOUR NIMBE 251 343 |
| $^{10}$C | 2006ANZV | NUCLEAR REACTIONS $^{1,2}$H($^{10}$C, p), E=25.5 MeV; measured Ep, $\sigma(\theta)$. $^{11}$N deduced resonance energies, widths. $^{12}$O deduced upper limit for two-proton decay width. CONF Isle of Kos (FINUSTAR),Proc,P360 |

## A=11

| | | |
|---|---|---|
| $^{11}$Li | 2006NA39 | NUCLEAR REACTIONS Pb($^{11}$Li, 2n$^{9}$Li), E=70 MeV / nucleon; measured relative energy spectra. $^{11}$Li deduced B(E1) distribution, neutron-neutron correlation in ground state. JOUR PHSTB T125 96 |
| $^{11}$Be | 2006YE03 | NUCLEAR REACTIONS $^{9}$Be($^{6}$He, $^{6}$He), ($^{6}$He, $^{5}$He), ($^{6}$He, $\alpha$), E=25 MeV / nucleon; measured recoil spectra, $\sigma(\theta)$; deduced optical model parameters. $^{3}$H($^{17}$Ne, $^{16}$F), E=5 MeV / nucleon; calculated $\sigma(\theta)$. JOUR IMPEE 15 1465 |
| $^{11}$B | 2006CUZZ | NUCLEAR REACTIONS $^{7}$Li($^{7}$Li, $^{11}$B), ($^{7}$Li, $^{12}$B), E=58 MeV; $^{12}$C($^{7}$Li, $^{10}$B), E=58 MeV; measured particle spectra; deduced excitation energy spectra. $^{10,11,12}$B deduced relative yields for $\alpha$+Li and H+Be decay channels from excited states. CONF San Servolo(Fusion06),Proc,P160 |
| | 2006SOZZ | NUCLEAR REACTIONS $^{7}$Li($^{9}$Be, t2$\alpha$), E=55, 70 MeV; measured particle spectra; deduced excitation energy spectra. $^{11}$B deduced excited state decay features. CONF San Servolo(Fusion06),Proc,P171 |
| | 2006SZ06 | NUCLEAR REACTIONS $^{12}$C($^{16}$O, $^{16}$O'), ($^{16}$O, $^{15}$O), ($^{16}$O, $^{14}$N), E=62-124 MeV; $^{12}$C($^{18}$O, $^{18}$O'), ($^{18}$O, $^{17}$O), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{15}$N), ($^{18}$O, $^{19}$F), ($^{18}$O, $^{20}$Ne), E=66-120 MeV; measured particle spectra, $\sigma$(E, $\theta$), $\sigma$; deduced reaction mechanism features. JOUR NUPAB 779 21 |
| $^{11}$C | 2006ANZV | NUCLEAR REACTIONS $^{1,2}$H($^{10}$C, p), E=25.5 MeV; measured Ep, $\sigma(\theta)$. $^{11}$N deduced resonance energies, widths. $^{12}$O deduced upper limit for two-proton decay width. CONF Isle of Kos (FINUSTAR),Proc,P360 |
| | 2006BA66 | NUCLEAR REACTIONS $^{12}$C($\mu$, $\mu$n), E=low; measured production rate due to cosmic muon flux. JOUR PRVCA 74 045805 |

**A=11 *(continued)***

| | | |
|---|---|---|
| $^{11}$N | 2006ANZV | NUCLEAR REACTIONS $^{1,2}$H($^{10}$C, p), E=25.5 MeV; measured Ep, $\sigma(\theta)$. $^{11}$N deduced resonance energies, widths. $^{12}$O deduced upper limit for two-proton decay width. CONF Isle of Kos (FINUSTAR),Proc,P360 |

## A=12

| | | |
|---|---|---|
| $^{12}$B | 2006CUZZ | NUCLEAR REACTIONS $^{7}$Li($^{7}$Li, $^{11}$B), ($^{7}$Li, $^{12}$B), E=58 MeV; $^{12}$C($^{7}$Li, $^{10}$B), E=58 MeV; measured particle spectra; deduced excitation energy spectra. $^{10,11,12}$B deduced relative yields for $\alpha$+Li and H+Be decay channels from excited states. CONF San Servolo(Fusion06),Proc,P160 |
| $^{12}$C | 2005MB12 | NUCLEAR REACTIONS $^{12}$C($^{6}$Li, $^{6}$Li), ($^{6}$Li, $^{6}$Li'), E=63 MeV; measured $\sigma(\theta)$; deduced optical model parameters. $^{12}$C, $^{16}$O, $^{24}$Mg, $^{28}$Si, $^{40}$Ca, $^{60}$Ni, $^{90}$Zr, $^{124}$Sn, $^{208}$Pb($^{6}$Li, $^{6}$Li), E $\approx$ 50-90 MeV; calculated $\sigma(\theta)$. JOUR BRSPE 69 1761 |
| | 2006KI14 | NUCLEAR REACTIONS $^{12}$C($\pi^+$, K$^+$), E at 1.05 GeV / c; measured excitation energy spectra, Ep, En, np-, nn-coin, angular correlations. $^{12}$C deduced hypernucleus nonmesonic weak decay widths. JOUR PYLBB 641 28 |
| | 2006MIZY | NUCLEAR REACTIONS $^{6,7}$Li, $^{12}$C($^{6}$He, $^{6}$He), E=17.9 MeV; $^{6}$Li($^{6}$He, $\alpha$), E=17.9 MeV; measured $\sigma(\theta)$. $^{7}$Li($^{6}$He, n$\alpha$), ($^{6}$He, 2n$\alpha$), ($^{6}$He, 3n$\alpha$), E=17.9 MeV; measured excitation energy spectra. Comparison with model predictions. CONF San Servolo(Fusion06),Proc,P154 |
| | 2006SZ06 | NUCLEAR REACTIONS $^{12}$C($^{16}$O, $^{16}$O'), ($^{16}$O, $^{15}$O), ($^{16}$O, $^{14}$N), E=62-124 MeV; $^{12}$C($^{18}$O, $^{18}$O'), ($^{18}$O, $^{17}$O), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{15}$N), ($^{18}$O, $^{19}$F), ($^{18}$O, $^{20}$Ne), E=66-120 MeV; measured particle spectra, $\sigma$(E, $\theta$), $\sigma$; deduced reaction mechanism features. JOUR NUPAB 779 21 |
| $^{12}$O | 2006ANZV | NUCLEAR REACTIONS $^{1,2}$H($^{10}$C, p), E=25.5 MeV; measured Ep, $\sigma(\theta)$. $^{11}$N deduced resonance energies, widths. $^{12}$O deduced upper limit for two-proton decay width. CONF Isle of Kos (FINUSTAR),Proc,P360 |

## A=13

| | | |
|---|---|---|
| $^{13}$C | 2006SZ06 | NUCLEAR REACTIONS $^{12}$C($^{16}$O, $^{16}$O'), ($^{16}$O, $^{15}$O), ($^{16}$O, $^{14}$N), E=62-124 MeV; $^{12}$C($^{18}$O, $^{18}$O'), ($^{18}$O, $^{17}$O), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{15}$N), ($^{18}$O, $^{19}$F), ($^{18}$O, $^{20}$Ne), E=66-120 MeV; measured particle spectra, $\sigma$(E, $\theta$), $\sigma$; deduced reaction mechanism features. JOUR NUPAB 779 21 |

## A=14

| | | |
|---|---|---|
| $^{14}$C | 2006SZ06 | NUCLEAR REACTIONS $^{12}$C($^{16}$O, $^{16}$O'), ($^{16}$O, $^{15}$O), ($^{16}$O, $^{14}$N), E=62-124 MeV; $^{12}$C($^{18}$O, $^{18}$O'), ($^{18}$O, $^{17}$O), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{15}$N), ($^{18}$O, $^{19}$F), ($^{18}$O, $^{20}$Ne), E=66-120 MeV; measured particle spectra, $\sigma$(E, $\theta$), $\sigma$; deduced reaction mechanism features. JOUR NUPAB 779 21 |
| $^{14}$N | 2006CHZV | NUCLEAR REACTIONS $^{14}$N($\alpha$, $\gamma$), E=1775 keV; measured E$\gamma$, I$\gamma$, DSA. $^{18}$F deduced level energy, $T_{1/2}$. $^{17}$O(p, $\alpha$), E $\approx$ 194-201 keV; measured E$\alpha$, $\sigma(\theta)$; deduced resonance parameters. $^{17}$O(p, $\gamma$), E=192.7, 196.5; measured activation yields; deduced resonance features. Astrophysical implications discussed. CONF Isle of Kos (FINUSTAR),Proc,P304 |
| | 2006MI22 | NUCLEAR REACTIONS $^{2}$H, $^{16}$O(e, e'np), E=855 MeV; measured particle spectra. $^{14}$N deduced excited states. JOUR ZAANE 29 261 |
| | 2006SE14 | NUCLEAR MOMENTS $^{14}$N; measured NQR spectra in picolinic, nicotinic, isonicotinic and dinicotinic acids. JOUR CMPHC 331 131 |
| | 2006SK05 | NUCLEAR REACTIONS $^{13}$C(p, $\gamma$), E $\approx$ 1.7476 MeV; measured resonance $\gamma$-ray yields for target implanted in crystal; deduced orientation effects. JOUR ZAANE 29 383 |
| | 2006SZ06 | NUCLEAR REACTIONS $^{12}$C($^{16}$O, $^{16}$O'), ($^{16}$O, $^{15}$O), ($^{16}$O, $^{14}$N), E=62-124 MeV; $^{12}$C($^{18}$O, $^{18}$O'), ($^{18}$O, $^{17}$O), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{15}$N), ($^{18}$O, $^{19}$F), ($^{18}$O, $^{20}$Ne), E=66-120 MeV; measured particle spectra, $\sigma$(E, $\theta$), $\sigma$; deduced reaction mechanism features. JOUR NUPAB 779 21 |
| $^{14}$O | 2006LI48 | NUCLEAR REACTIONS $^{2}$H($^{13}$N, n), E(cm)=8.9 MeV; measured $\sigma(\theta)$; deduced asymptotic normalization coefficient. $^{13}$N(p, $\gamma$), E(cm)=0-1.0 MeV; deduced astrophysical S-factors, reaction rate. JOUR PRVCA 74 035801 |

## A=15

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| $^{15}$N | 2006ISZW | NUCLEAR REACTIONS $^{4}$He($^{12}$B, n), E(cm)=1.0-3.7 MeV; measured $\sigma$. $^{12}$B($\alpha$, n), E(cm)=1.0-3.7 MeV; deduced excitation function. REPT JAEA-Review 2006-029,P45,Ishiyama |
| | 2006SZ06 | NUCLEAR REACTIONS $^{12}$C($^{16}$O, $^{16}$O'), ($^{16}$O, $^{15}$O), ($^{16}$O, $^{14}$N), E=62-124 MeV; $^{12}$C($^{18}$O, $^{18}$O'), ($^{18}$O, $^{17}$O), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{15}$N), ($^{18}$O, $^{19}$F), ($^{18}$O, $^{20}$Ne), E=66-120 MeV; measured particle spectra, $\sigma$(E, $\theta$), $\sigma$; deduced reaction mechanism features. JOUR NUPAB 779 21 |
| $^{15}$O | 2006BE50 | NUCLEAR REACTIONS $^{14}$N(p, $\gamma$), E=70-228 keV; measured E$\gamma$, $\sigma$; deduced astrophysical S-factor, resonance strength. JOUR NUPAB 779 297 |

## A=16

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| $^{16}$O | 2006JO11 | NUCLEAR REACTIONS $^{6}$Li($^{13}$C, d), E=8.0, 8.5 MeV; measured deuteron spectra, $\sigma$(E, $\theta$); deduced asymptotic normalization coefficient for subthreshold resonance. $^{13}$C($\alpha$, n), E $\approx$ 0-1 MeV; deduced astrophysical S-factor, reaction rates. JOUR PRLTA 97 192701 |
| | 2006MA81 | NUCLEAR REACTIONS $^{4}$He($^{12}$C, $\gamma$), E(cm)=2.22-5.42 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin; deduced $\sigma$, astrophysical S-factor. Recoil separator. JOUR PRLTA 97 242503 |
| | 2006ME26 | NUCLEAR REACTIONS $^{2}$H, $^{12}$C, $^{16}$O(n, n), (n, n'), E=95 MeV; measured $\sigma$(E, $\theta$); deduced three-nucleon force effects, recoil kerma coefficients. JOUR PRVCA 74 054002 |
| | 2006WAZY | NUCLEAR REACTIONS $^{16}$O($\alpha$, $\alpha$'), E=400 MeV; measured E$\alpha$, $\sigma$(E, $\theta$). $^{16}$O deduced possible $\alpha$-cluster condensed state. PREPRINT nucl-ex/0611021,11/13/2006 |

## A=17

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|---|---|---|
| $^{17}$N | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{17}$O | 2006JO11 | NUCLEAR REACTIONS $^{6}$Li($^{13}$C, d), E=8.0, 8.5 MeV; measured deuteron spectra, $\sigma$(E, $\theta$); deduced asymptotic normalization coefficient for subthreshold resonance. $^{13}$C($\alpha$, n), E $\approx$ 0-1 MeV; deduced astrophysical S-factor, reaction rates. JOUR PRLTA 97 192701 |
| $^{17}$F | 2006DEZU | NUCLEAR REACTIONS $^{1}$H($^{18}$O, p), ($^{18}$Ne, p), E(cm)=800-6000 keV; measured excitation function, $\sigma$($\theta$=180°). $^{1}$H($^{18}$Ne, 2p), E(cm)=800-6000 keV; measured proton spectra, pp-coin. $^{19}$Na deduced levels, proton decay features. CONF Isle of Kos (FINUSTAR),Proc,P129 |
| $^{17}$Ne | 2006HEZS | ATOMIC MASSES $^{17,19}$Ne; measured masses. Triple-trap mass spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P152 |

## A=18

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| $^{18}$N | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{18}$O | 2006DEZU | NUCLEAR REACTIONS $^{1}$H($^{18}$O, p), ($^{18}$Ne, p), E(cm)=800-6000 keV; measured excitation function, $\sigma(\theta$=180°). $^{1}$H($^{18}$Ne, 2p), E(cm)=800-6000 keV; measured proton spectra, pp-coin. $^{19}$Na deduced levels, proton decay features. CONF Isle of Kos (FINUSTAR),Proc,P129 |
| | 2007GA01 | RADIOACTIVITY $^{18}$F, $^{22}$Na($\beta^+$); measured E$\gamma$, I$\gamma$; deduced activity. JOUR NIMAE 570 84 |
| $^{18}$F | 2006CHZV | NUCLEAR REACTIONS $^{14}$N($\alpha$, $\gamma$), E=1775 keV; measured E$\gamma$, I$\gamma$, DSA. $^{18}$F deduced level energy, $T_{1/2}$. $^{17}$O(p, $\alpha$), E ≈ 194-201 keV; measured E$\alpha$, $\sigma(\theta)$; deduced resonance parameters. $^{17}$O(p, $\gamma$), E=192.7, 196.5; measured activation yields; deduced resonance features. Astrophysical implications discussed. CONF Isle of Kos (FINUSTAR),Proc,P304 |
| | 2007GA01 | RADIOACTIVITY $^{18}$F, $^{22}$Na($\beta^+$); measured E$\gamma$, I$\gamma$; deduced activity. JOUR NIMAE 570 84 |
| $^{18}$Ne | 2006DEZU | NUCLEAR REACTIONS $^{1}$H($^{18}$O, p), ($^{18}$Ne, p), E(cm)=800-6000 keV; measured excitation function, $\sigma(\theta$=180°). $^{1}$H($^{18}$Ne, 2p), E(cm)=800-6000 keV; measured proton spectra, pp-coin. $^{19}$Na deduced levels, proton decay features. CONF Isle of Kos (FINUSTAR),Proc,P129 |
| | 2006SKZY | NUCLEAR REACTIONS $^{1}$H($^{18}$Ne, p), E(cm)=0.5-2.7 MeV; measured $\sigma(\theta)$, excitation functions. $^{19}$Na deduced resonance energy, J, $\pi$. R-matrix and potential model analysis. PREPRINT nucl-ex/0609040,9/26/2006 |

## A=19

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|---|---|---|
| $^{19}$N | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{19}$O | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{19}$Ne | 2006HEZS | ATOMIC MASSES $^{17,19}$Ne; measured masses. Triple-trap mass spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P152 |
| | 2006KA50 | NUCLEAR REACTIONS $^{3}$He($^{20}$Ne, $\alpha$), E=34 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, DSA. $^{19}$Ne level deduced $T_{1/2}$, decay width. JOUR PRVCA 74 045803 |
| $^{19}$Na | 2006ACZY | NUCLEAR REACTIONS $^{1}$H, C($^{18}$Ne, p), E=66 MeV; measured Ep following elastic and inelastic scattering. $^{19}$Na deduced excited states. CONF Isle of Kos (FINUSTAR),Proc,P374 |

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

2006DEZU NUCLEAR REACTIONS $^{1}$H($^{18}$O, p), ($^{18}$Ne, p), E(cm)=800-6000 keV; measured excitation function, $\sigma(\theta=180°)$. $^{1}$H($^{18}$Ne, 2p), E(cm)=800-6000 keV; measured proton spectra, pp-coin. $^{19}$Na deduced levels, proton decay features. CONF Isle of Kos (FINUSTAR),Proc,P129

2006SKZY NUCLEAR REACTIONS $^{1}$H($^{18}$Ne, p), E(cm)=0.5-2.7 MeV; measured $\sigma(\theta)$, excitation functions. $^{19}$Na deduced resonance energy, J, $\pi$. R-matrix and potential model analysis. PREPRINT nucl-ex/0609040,9/26/2006

## A=20

$^{20}$N 2006KH08 NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1

**A=20 *(continued)***

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| $^{20}$O | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{20}$F | 2006SZ07 | NUCLEAR REACTIONS $^{6}$Li, $^{11}$B, $^{16}$O, $^{19}$F(d, p$\gamma$), E=0.6-2 MeV; $^{9}$Be(d, n$\gamma$), , E=0.6-2 MeV; measured E$\gamma$, I$\gamma$; deduced $\gamma$-ray production $\sigma$, thin target yields. JOUR NIMBE 251 343 |
| $^{20}$Ne | 2006BA64 | NUCLEAR REACTIONS $^{12}$C($^{12}$C, $\alpha$), ($^{12}$C, p), ($^{12}$C, n), E(cm)=2.25-6.01 MeV; measured E$\gamma$, I$\gamma$; deduced $\sigma$, astrophysical S-factors. JOUR NUPAB 779 318 |

## A=21

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| $^{21}$N | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=21 *(continued)***

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|---|---|---|
| $^{21}$O | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{21}$F | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

## A=22

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| $^{22}$N | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{22}$O | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

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

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| $^{22}$F | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{22}$Ne | 2006FR16 | NUCLEAR REACTIONS $^{12}$C($^{18}$O, 2$\alpha^{14}$C), E=140 MeV; measured particle spectra. $^{22}$Ne deduced level energies, possible cluster structure. JOUR JPGPE 32 2235 |
| | 2006INZZ | RADIOACTIVITY $^{22}$Na(EC); measured Auger spectrum; deduced E, RI of $KL_1L_1$, $KL_1L_2$, $KL_1L_{2,3}$, $KL_2L_2$, $KL_2L_3$ Auger groups. Electrostatic spectrometer. CONF Sarov(Nucleus-2006),Contrib,P77,Inoyatov |
| | 2007GA01 | RADIOACTIVITY $^{18}$F, $^{22}$Na($\beta^+$); measured E$\gamma$, I$\gamma$; deduced activity. JOUR NIMAE 570 84 |
| $^{22}$Na | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^7$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^7$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006IA03 | RADIOACTIVITY $^{23}$Al($\beta^+$), ($\beta^+$p) [from $^1$H($^{24}$Mg, X)]; measured E$\gamma$, I$\gamma$, $\beta\gamma$-coin, $T_{1/2}$; deduced log ft. $^{23}$Mg deduced levels, J, $\pi$, IAS. $^{23}$Al deduced ground-state J, $\pi$. Astrophysical implications discussed. JOUR PRVCA 74 045810 |
| | 2006INZZ | RADIOACTIVITY $^{22}$Na(EC); measured Auger spectrum; deduced E, RI of $KL_1L_1$, $KL_1L_2$, $KL_1L_{2,3}$, $KL_2L_2$, $KL_2L_3$ Auger groups. Electrostatic spectrometer. CONF Sarov(Nucleus-2006),Contrib,P77,Inoyatov |
| | 2007GA01 | RADIOACTIVITY $^{18}$F, $^{22}$Na($\beta^+$); measured E$\gamma$, I$\gamma$; deduced activity. JOUR NIMAE 570 84 |

## A=23

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| $^{23}$O | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{23}$F | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=23 *(continued)***

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| $^{23}$Ne | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{23}$Na | 2006BA64 | NUCLEAR REACTIONS $^{12}$C($^{12}$C, $\alpha$), ($^{12}$C, p), ($^{12}$C, n), E(cm)=2.25-6.01 MeV; measured E$\gamma$, I$\gamma$; deduced $\sigma$, astrophysical S-factors. JOUR NUPAB 779 318 |
| $^{23}$Mg | 2006BA64 | NUCLEAR REACTIONS $^{12}$C($^{12}$C, $\alpha$), ($^{12}$C, p), ($^{12}$C, n), E(cm)=2.25-6.01 MeV; measured E$\gamma$, I$\gamma$; deduced $\sigma$, astrophysical S-factors. JOUR NUPAB 779 318 |
| | 2006IA03 | RADIOACTIVITY $^{23}$Al($\beta^+$), ($\beta^+$p) [from $^{1}$H($^{24}$Mg, X)]; measured E$\gamma$, I$\gamma$, $\beta\gamma$-coin, $T_{1/2}$; deduced log ft. $^{23}$Mg deduced levels, J, $\pi$, IAS. $^{23}$Al deduced ground-state J, $\pi$. Astrophysical implications discussed. JOUR PRVCA 74 045810 |
| $^{23}$Al | 2006IA03 | RADIOACTIVITY $^{23}$Al($\beta^+$), ($\beta^+$p) [from $^{1}$H($^{24}$Mg, X)]; measured E$\gamma$, I$\gamma$, $\beta\gamma$-coin, $T_{1/2}$; deduced log ft. $^{23}$Mg deduced levels, J, $\pi$, IAS. $^{23}$Al deduced ground-state J, $\pi$. Astrophysical implications discussed. JOUR PRVCA 74 045810 |

## A=24

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|---|---|---|
| $^{24}$O | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{24}$F | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{24}$Ne | 2006BEZP | NUCLEAR REACTIONS $^{208}$Pb($^{24}$Ne, X), E=7.9 MeV / nucleon; measured fragments isotopic yields, E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{24,25}$Ne deduced transitions. CONF San Servolo(Fusion06),Proc,P49 |

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

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|---|---|---|
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{24}$Na | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| $^{24}$Mg | 2006SAZT | NUCLEAR REACTIONS $^{24}$Mg($^{24}$Mg, X), E(cm)=45.7 MeV; measured fragment charge distributions. $^{24}$Mg($^{24}$Mg, $^{24}$Mg'), E(cm)=45.7 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin; deduced molecular resonance features, feeding of $^{24}$Mg excited states. CONF San Servolo(Fusion06),Proc,P165 |

## A=25

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|---|---|---|
| $^{25}$F | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{25}$Ne | 2006BEZP | NUCLEAR REACTIONS $^{208}$Pb($^{24}$Ne, X), E=7.9 MeV / nucleon; measured fragments isotopic yields, E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{24,25}$Ne deduced transitions. CONF San Servolo(Fusion06),Proc,P49 |
| | 2006FEZZ | NUCLEAR REACTIONS $^{2}$H($^{24}$Ne, p), E=10 MeV / nucleon; measured particle spectra, $\sigma(\theta)$. $^{25}$Ne deduced levels, J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P347 |
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006LEZT | NUCLEAR REACTIONS $^{2}$H($^{24}$Ne, p), E=10 MeV / nucleon; measured Ep, E$\gamma$, p$\gamma$-coin, $\sigma(\theta)$. $^{25}$Ne deduced levels, J, $\pi$. Tiara, Exogam arrays, Vamos spectrometer. CONF San Servolo(Fusion06),Proc,P285 |

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

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| $^{25}$Al | 2006FU15 | NUCLEAR REACTIONS $^{25}$Mg($^{3}$He, t), E=140 MeV / nucleon; measured triton spectra, $\sigma(\theta=0^{\circ})$. $^{25}$Al deduced levels, J, $\pi$, B(GT), rotational band. Comparison with mirror states in $^{25}$Mg. JOUR PHSTB T125 194 |

## A=26

| | | |
|---|---|---|
| $^{26}$F | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{26}$Ne | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=26 *(continued)***

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|---|---|---|
| $^{26}$Na | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{26}$Al | 2006ER08 | ATOMIC MASSES $^{26m}$Al, $^{42}$Sc, $^{46}$V; measured masses; deduced Q(EC). Comparison with previous results, implications for CKM matrix element discussed. JOUR PRLTA 97 232501 |
| $^{26}$Si | 2006BA65 | NUCLEAR REACTIONS $^{28}$Si(p, t), (p, d), E=40 MeV; measured particle spectra, angular distributions. $^{26}$Si level deduced J, $\pi$. $^{25}$Al(p, $\gamma$), E=low; deduced astrophysical reaction rate. JOUR PRVCA 74 045804 |

## A=27

| | | |
|---|---|---|
| $^{27}$F | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=27 *(continued)***

| | | |
|---|---|---|
| $^{27}$Ne | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006OBZZ | NUCLEAR REACTIONS $^{2}$H($^{26}$Ne, p), E=9.7 MeV / nucleon; measured E$\gamma$, I$\gamma$, (charged-particle)$\gamma$-coin, $\sigma$(E). $^{27}$Ne deduced levels, J, $\pi$, spectroscopic factor. CONF Isle of Kos (FINUSTAR),Proc,P177 |
| $^{27}$Na | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{27}$Al | 2006BEZM | NUCLEAR REACTIONS $^{27}$Al($^{6}$He, $^{6}$He), E=9.5, 11.0, 12.0, 13.4 MeV; measured $\sigma(\theta)$. $^{27}$Al($^{6}$He, X), ($^{6}$Li, X), ($^{7}$Li, X), ($^{9}$Be, X), ($^{16}$O, X), E(cm) $\approx$ 0.7-2.6 MeV; analyzed data; deduced reduced reaction $\sigma$. Comparisons with model predictions. PREPRINT nucl-ex/0612002,12/2/2006 |

**A=27 *(continued)***

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|---|---|---|
| | 2006LEZU | NUCLEAR REACTIONS $^{27}$Al($^{6}$He, $^{6}$He), E=9.5, 11.0, 12.0, 13.4 MeV; measured $\sigma(\theta)$. $^{27}$Al($^{6}$He, X), ($^{6}$Li, X), ($^{7}$Li, X), ($^{9}$Be, X), ($^{16}$O, X), E(cm) $\approx$ 0.7-2.6 MeV; analyzed data; deduced reduced reaction $\sigma$. Comparisons with model predictions. CONF San Servolo(Fusion06),Proc,P102 |
| | 2006TO11 | NUCLEAR MOMENTS $^{27}$Al; measured NQR and NMR spectra in $CeAl_2$. JOUR JCOME 18 10413 |
| $^{27}$Si | 2006BA65 | NUCLEAR REACTIONS $^{28}$Si(p, t), (p, d), E=40 MeV; measured particle spectra, angular distributions. $^{26}$Si level deduced J, $\pi$. $^{25}$Al(p, $\gamma$), E=low; deduced astrophysical reaction rate. JOUR PRVCA 74 045804 |

## A=28

| | | |
|---|---|---|
| $^{28}$Ne | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

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

| | | |
|---|---|---|
| $^{28}$Na | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{28}$Mg | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

## A=29

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| $^{29}$Ne | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{29}$Na | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

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

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| $^{29}$Mg | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{29}$Si | 2006BU16 | NUCLEAR MOMENTS $^{29}$Si; measured hfs in amorphous silicon dioxide. Electron paramagnetic resonance. JOUR PRLTA 97 135502 |

## A=30

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| $^{30}$Ne | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=30 *(continued)***

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| $^{30}$Na | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006SCZW | RADIOACTIVITY $^{30}$Na($\beta^-$); measured E$\gamma$, I$\gamma$, E(ce), I(ce). $^{30}$Mg deduced E0 transition strength. REPT MLL 2005 Annual, P5,Schwerdtfeger |
| $^{30}$Mg | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006SCZW | RADIOACTIVITY $^{30}$Na($\beta^-$); measured E$\gamma$, I$\gamma$, E(ce), I(ce). $^{30}$Mg deduced E0 transition strength. REPT MLL 2005 Annual, P5,Schwerdtfeger |

## A=31

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| $^{31}$Na | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{31}$Mg | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=31** ***(continued)***

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|---|---|---|
| $^{31}$Al | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{31}$P | 2005VO24 | NUCLEAR REACTIONS $^{30}$Si(p, $\gamma$), E=750-840, 1475-1520 keV; measured E$\gamma$, I$\gamma$, excitation function. $^{31}$P deduced analog states widths, J, $\pi$, B(M1). JOUR BRSPE 69 1802 |

## A=32

| | | |
|---|---|---|
| $^{32}$Na | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{32}$Mg | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{32}$Al | 2006ANZW | RADIOACTIVITY $^{33}$Mg, $^{35}$Al($\beta^-$), ($\beta^-$n) [from $^{36}$S fragmentation]; measured E$\gamma$, En, $\beta\gamma$-, $\beta$n-coin; deduced log ft. $^{34,35}$Si, $^{32,33}$Al deduced levels, J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P134 |

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

2006KH08 NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1

2006RO34 NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602

## A=33

$^{33}$Na 2006KH08 NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1

**A=33 *(continued)***

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|---|---|---|
| $^{33}$Mg | 2006ANZW | RADIOACTIVITY $^{33}$Mg, $^{35}$Al($\beta^-$), ($\beta^-$n) [from $^{36}$S fragmentation]; measured E$\gamma$, En, $\beta\gamma$-, $\beta$n-coin; deduced log ft. $^{34,35}$Si, $^{32,33}$Al deduced levels, J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P134 |
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{33}$Al | 2006ANZW | RADIOACTIVITY $^{33}$Mg, $^{35}$Al($\beta^-$), ($\beta^-$n) [from $^{36}$S fragmentation]; measured E$\gamma$, En, $\beta\gamma$-, $\beta$n-coin; deduced log ft. $^{34,35}$Si, $^{32,33}$Al deduced levels, J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P134 |
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=33 *(continued)***

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|---|---|---|
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{33}$Si | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{33}$Cl | 2006TR10 | NUCLEAR REACTIONS $^{32}$S(p, $\gamma$), E $\approx$ 1.75, 3.4 MeV; measured E$\gamma$, I$\gamma$, excitation functions. $^{33}$Cl deduced level energies, widths. JOUR PRVCA 74 054306 |

## A=34

| | | |
|---|---|---|
| $^{34}$Mg | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{34}$Al | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{34}$Si | 2006ANZW | RADIOACTIVITY $^{33}$Mg, $^{35}$Al($\beta^-$), ($\beta^-$n) [from $^{36}$S fragmentation]; measured E$\gamma$, En, $\beta\gamma$-, $\beta$n-coin; deduced log ft. $^{34,35}$Si, $^{32,33}$Al deduced levels, J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P134 |

**A=34 *(continued)***

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|---|---|---|
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{34}$S | 2006IA05 | RADIOACTIVITY $^{34,35}$Ar, $^{34}$Cl($\beta^+$) [from $^{1}$H($^{35}$Cl, xnyp)]; measured $T_{1/2}$. JOUR PRVCA 74 055502 |
| $^{34}$Cl | 2006IA05 | RADIOACTIVITY $^{34,35}$Ar, $^{34}$Cl($\beta^+$) [from $^{1}$H($^{35}$Cl, xnyp)]; measured $T_{1/2}$. JOUR PRVCA 74 055502 |
| $^{34}$Ar | 2006IA05 | RADIOACTIVITY $^{34,35}$Ar, $^{34}$Cl($\beta^+$) [from $^{1}$H($^{35}$Cl, xnyp)]; measured $T_{1/2}$. JOUR PRVCA 74 055502 |

## A=35

| | | |
|---|---|---|
| $^{35}$Mg | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{35}$Al | 2006ANZW | RADIOACTIVITY $^{33}$Mg, $^{35}$Al($\beta^-$), ($\beta^-$n) [from $^{36}$S fragmentation]; measured E$\gamma$, En, $\beta\gamma$-, $\beta$n-coin; deduced log ft. $^{34,35}$Si, $^{32,33}$Al deduced levels, J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P134 |
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{35}$Si | 2006ANZW | RADIOACTIVITY $^{33}$Mg, $^{35}$Al($\beta^-$), ($\beta^-$n) [from $^{36}$S fragmentation]; measured E$\gamma$, En, $\beta\gamma$-, $\beta$n-coin; deduced log ft. $^{34,35}$Si, $^{32,33}$Al deduced levels, J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P134 |

**A=35 *(continued)***

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|---|---|---|
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{35}$Cl | 2006IA05 | RADIOACTIVITY $^{34,35}$Ar, $^{34}$Cl($\beta^+$) [from $^{1}$H($^{35}$Cl, xnyp)]; measured $T_{1/2}$. JOUR PRVCA 74 055502 |
| $^{35}$Ar | 2006IA05 | RADIOACTIVITY $^{34,35}$Ar, $^{34}$Cl($\beta^+$) [from $^{1}$H($^{35}$Cl, xnyp)]; measured $T_{1/2}$. JOUR PRVCA 74 055502 |

## A=36

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|---|---|---|
| $^{36}$Al | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{36}$Si | 2006GAZV | NUCLEAR REACTIONS $^{238}$U($^{82}$Se, X), E=505 MeV; $^{238}$U($^{64}$Ni, X), E=400 MeV; $^{208}$Pb($^{36}$S, X), E=230 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, fragments isotopic yields. $^{81}$Ga, $^{83}$Ge, $^{83}$As deduced transitions. $^{36}$Si, $^{54,58,60}$Cr deduced levels, J, $\pi$. CLARA array, PRISMA spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P85 |
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006LIZY | NUCLEAR REACTIONS $^{208}$Pb($^{36}$S, X)$^{36}$Si / $^{37}$P, E=215 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{37}$P deduced levels, possible J, $\pi$. CONF San Servolo(Fusion06),Proc,P37 |

**A=36 *(continued)***

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|---|---|---|
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{36}$P | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{36}$K | 2006BUZW | NUCLEAR REACTIONS $^{9}$Be($^{37}$Ca, X)$^{36}$Ca / $^{37}$Ca / $^{36}$K, E $\approx$ 61 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{36,37}$Ca, $^{36}$K deduced excited states energies. Secondary beam from $^{40}$Ca fragmentation. CONF Isle of Kos (FINUSTAR),Proc,P418 |
| $^{36}$Ca | 2006BUZW | NUCLEAR REACTIONS $^{9}$Be($^{37}$Ca, X)$^{36}$Ca / $^{37}$Ca / $^{36}$K, E $\approx$ 61 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{36,37}$Ca, $^{36}$K deduced excited states energies. Secondary beam from $^{40}$Ca fragmentation. CONF Isle of Kos (FINUSTAR),Proc,P418 |

## A=37

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|---|---|---|
| $^{37}$Al | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{37}$Si | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=37 *(continued)***

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|---|---|---|
| $^{37}$P | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006LIZY | NUCLEAR REACTIONS $^{208}$Pb($^{36}$S, X)$^{36}$Si / $^{37}$P, E=215 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{37}$P deduced levels, possible J, $\pi$. CONF San Servolo(Fusion06),Proc,P37 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{37}$Cl | 2006FA07 | NUCLEAR REACTIONS $^{40}$Ca($^{40}$Ca, pX)$^{39}$K / $^{38}$Ar / $^{37}$Cl, E=50 MeV / nucleon; measured Ep, missing energy spectra. $^{40}$Ca deduced three-phonon giant resonance state. JOUR PRLTA 97 242502 |
| $^{37}$Ca | 2006BUZW | NUCLEAR REACTIONS $^{9}$Be($^{37}$Ca, X)$^{36}$Ca / $^{37}$Ca / $^{36}$K, E $\approx$ 61 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{36,37}$Ca, $^{36}$K deduced excited states energies. Secondary beam from $^{40}$Ca fragmentation. CONF Isle of Kos (FINUSTAR),Proc,P418 |

## A=38

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|---|---|---|
| $^{38}$Al | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{38}$Si | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

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

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|---|---|---|
| $^{38}$P | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{38}$S | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| | 2006ST21 | NUCLEAR REACTIONS $^{197}$Au($^{38}$S, $^{38}$S'), ($^{40}$S, $^{40}$S'), E $\approx$ 40 MeV / nucleon; measured E$\gamma$, I$\gamma$($\theta$, H, t), (particle)$\gamma$-coin following projectile Coulomb excitation. $^{38,40}$S levels deduced excitation B(E2), g factors. Transient field technique. JOUR PRVCA 74 054307 |
| $^{38}$Ar | 2006FA07 | NUCLEAR REACTIONS $^{40}$Ca($^{40}$Ca, pX)$^{39}$K / $^{38}$Ar / $^{37}$Cl, E=50 MeV / nucleon; measured Ep, missing energy spectra. $^{40}$Ca deduced three-phonon giant resonance state. JOUR PRLTA 97 242502 |

## A=39

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|---|---|---|
| $^{39}$Si | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{39}$P | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |

**A=39 *(continued)***

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|---|---|---|
| $^{39}$S | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{39}$Cl | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{39}$K | 2006FA07 | NUCLEAR REACTIONS $^{40}$Ca($^{40}$Ca, pX)$^{39}$K / $^{38}$Ar / $^{37}$Cl, E=50 MeV / nucleon; measured Ep, missing energy spectra. $^{40}$Ca deduced three-phonon giant resonance state. JOUR PRLTA 97 242502 |

## A=40

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| $^{40}$Si | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{40}$P | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

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

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|---|---|---|
| $^{40}$S | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| | 2006ST21 | NUCLEAR REACTIONS $^{197}$Au($^{38}$S, $^{38}$S'), ($^{40}$S, $^{40}$S'), E $\approx$ 40 MeV / nucleon; measured E$\gamma$, I$\gamma$($\theta$, H, t), (particle)$\gamma$-coin following projectile Coulomb excitation. $^{38,40}$S levels deduced excitation B(E2), g factors. Transient field technique. JOUR PRVCA 74 054307 |
| $^{40}$Cl | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{40}$Ca | 2006FA07 | NUCLEAR REACTIONS $^{40}$Ca($^{40}$Ca, pX)$^{39}$K / $^{38}$Ar / $^{37}$Cl, E=50 MeV / nucleon; measured Ep, missing energy spectra. $^{40}$Ca deduced three-phonon giant resonance state. JOUR PRLTA 97 242502 |

## A=41

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| $^{41}$P | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{41}$S | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{41}$Ar | 2006VOZW | NUCLEAR REACTIONS $^{40}$Ar(p, $\gamma$), E=450-2700 MeV; measured E$\gamma$. $^{41}$K deduced levels. $^{41}$Ar deduced analogue resonances. Electrostatic accelerator. CONF Sarov(Nucleus-2006),Contrib,P156,Vodin |
| $^{41}$K | 2006VOZW | NUCLEAR REACTIONS $^{40}$Ar(p, $\gamma$), E=450-2700 MeV; measured E$\gamma$. $^{41}$K deduced levels. $^{41}$Ar deduced analogue resonances. Electrostatic accelerator. CONF Sarov(Nucleus-2006),Contrib,P156,Vodin |

## A=42

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| $^{42}$Si | 2006FR13 | NUCLEAR REACTIONS $^{9}$Be($^{44}$S, X)$^{42}$Si / $^{43}$P, E=98.6 MeV / nucleon; $^{9}$Be($^{46}$Ar, X)$^{44}$S, E=98.1 MeV / nucleon; measured E$\gamma$, I$\gamma$, particle spectra, (particle)$\gamma$-coin; deduced one- and two-proton knockout $\sigma$. $^{43}$P deduced transition. $^{42}$Si, $^{43}$P, $^{44}$S deduced ground-state configurations, shell closure features. Shell model, diffractive effects in knockout reactions. JOUR PRVCA 74 034313 |
| $^{42}$P | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{42}$S | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

**A=42 *(continued)***

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| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{42}$Cl | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{42}$Ar | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{42}$K | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |

**A=42 *(continued)***

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| $^{42}$Sc | 2006ER08 | ATOMIC MASSES $^{26m}$Al, $^{42}$Sc, $^{46}$V; measured masses; deduced Q(EC). Comparison with previous results, implications for CKM matrix element discussed. JOUR PRLTA 97 232501 |
| | 2006MOZS | NUCLEAR REACTIONS S, Pb($^{16}$O, X)$^{42}$Sc, E=60 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{42}$Sc deduced high-spin levels, J, $\pi$. Gemini-II array. REPT JAEA-Review 2006-029,P21,Morikawa |

## A=43

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| $^{43}$P | 2006FR13 | NUCLEAR REACTIONS $^{9}$Be($^{44}$S, X)$^{42}$Si / $^{43}$P, E=98.6 MeV / nucleon; $^{9}$Be($^{46}$Ar, X)$^{44}$S, E=98.1 MeV / nucleon; measured E$\gamma$, I$\gamma$, particle spectra, (particle)$\gamma$-coin; deduced one- and two-proton knockout $\sigma$. $^{43}$P deduced transition. $^{42}$Si, $^{43}$P, $^{44}$S deduced ground-state configurations, shell closure features. Shell model, diffractive effects in knockout reactions. JOUR PRVCA 74 034313 |
| $^{43}$S | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{43}$Cl | 2006GA31 | NUCLEAR REACTIONS H, C($^{46}$Ar, X)$^{43}$Cl / $^{45}$Cl, E=76.4 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{45}$Cl deduced level energy. JOUR PRVCA 74 034322 |

**A=43 *(continued)***

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|---|---|---|
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{43}$K | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| $^{43}$Sc | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |

## A=44

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| $^{44}$S | 2006FR13 | NUCLEAR REACTIONS $^{9}$Be($^{44}$S, X)$^{42}$Si / $^{43}$P, E=98.6 MeV / nucleon; $^{9}$Be($^{46}$Ar, X)$^{44}$S, E=98.1 MeV / nucleon; measured E$\gamma$, I$\gamma$, particle spectra, (particle)$\gamma$-coin; deduced one- and two-proton knockout $\sigma$. $^{43}$P deduced transition. $^{42}$Si, $^{43}$P, $^{44}$S deduced ground-state configurations, shell closure features. Shell model, diffractive effects in knockout reactions. JOUR PRVCA 74 034313 |

**A=44 *(continued)***

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|---|---|---|
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{44}$Cl | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{44}$Ar | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |

### A=44 *(continued)*

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| $^{44}$K | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{44}$Sc | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006VIZZ | RADIOACTIVITY $^{44}$Ti(EC); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{44}$Sc deduced ICC. CONF Sarov(Nucleus-2006),Contrib,P96,Vishnevsky |
| $^{44}$Ti | 2006VIZZ | RADIOACTIVITY $^{44}$Ti(EC); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{44}$Sc deduced ICC. CONF Sarov(Nucleus-2006),Contrib,P96,Vishnevsky |

## A=45

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| $^{45}$Cl | 2006GA31 | NUCLEAR REACTIONS H, C($^{46}$Ar, X)$^{43}$Cl / $^{45}$Cl, E=76.4 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{45}$Cl deduced level energy. JOUR PRVCA 74 034322 |
| | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |

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

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|---|---|---|
| $^{45}$Ar | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{45}$K | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |

## A=46

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|---|---|---|
| $^{46}$Ar | 2006KH08 | NUCLEAR REACTIONS Si($^{17}$N, X), ($^{18}$N, X), ($^{19}$N, X), ($^{20}$N, X), ($^{21}$N, X), ($^{22}$N, X), ($^{19}$O, X), ($^{20}$O, X), ($^{21}$O, X), ($^{22}$O, X), ($^{23}$O, X), ($^{24}$O, X), ($^{21}$F, X), ($^{22}$F, X), ($^{23}$F, X), ($^{24}$F, X), ($^{25}$F, X), ($^{26}$F, X), ($^{27}$F, X), ($^{23}$Ne, X), ($^{24}$Ne, X), ($^{25}$Ne, X), ($^{26}$Ne, X), ($^{27}$Ne, X), ($^{28}$Ne, X), ($^{29}$Ne, X), ($^{30}$Ne, X), ($^{26}$Na, X), ($^{27}$Na, X), ($^{28}$Na, X), ($^{29}$Na, X), ($^{30}$Na, X), ($^{31}$Na, X), ($^{32}$Na, X), ($^{33}$Na, X), ($^{28}$Mg, X), ($^{29}$Mg, X), ($^{30}$Mg, X), ($^{31}$Mg, X), ($^{32}$Mg, X), ($^{33}$Mg, X), ($^{34}$Mg, X), ($^{35}$Mg, X), ($^{31}$Al, X), ($^{32}$Al, X), ($^{33}$Al, X), ($^{34}$Al, X), ($^{35}$Al, X), ($^{36}$Al, X), ($^{37}$Al, X), ($^{38}$Al, X), ($^{33}$Si, X), ($^{34}$Si, X), ($^{35}$Si, X), ($^{36}$Si, X), ($^{37}$Si, X), ($^{38}$Si, X), ($^{39}$Si, X), ($^{40}$Si, X), ($^{36}$P, X), ($^{37}$P, X), ($^{38}$P, X), ($^{39}$P, X), ($^{40}$P, X), ($^{41}$P, X), ($^{42}$P, X), ($^{39}$S, X), ($^{40}$S, X), ($^{41}$S, X), ($^{42}$S, X), ($^{43}$S, X), ($^{44}$S, X), ($^{42}$Cl, X), ($^{43}$Cl, X), ($^{44}$Cl, X), ($^{45}$Cl, X), ($^{45}$Ar, X), ($^{46}$Ar, X), E=30-65 MeV / nucleon; measured energy-integrated reaction $\sigma$. $^{17,18,19,20,21,22}$N, $^{19,20,21,22,23,24}$O, $^{21,22,23,24,25,26,27}$F, $^{23,24,25,26,27,28,29,30}$Ne, $^{26,27,28,29,30,31,32,33}$Na, $^{28,29,30,31,32,33,34,35}$Mg, $^{31,32,33,34,35,36,37,38}$Al, $^{33,34,35,36,37,38,39,40}$Si, $^{36,37,38,39,40,41,42}$P, $^{39,40,41,42,43,44}$S, $^{42,43,44,45}$Cl, $^{45,46}$Ar; deduced radii, isospin dependence. $^{35}$Mg, $^{44}$S; deduced possible halo structure or large deformation. JOUR NUPAB 780 1 |
| $^{46}$K | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{46}$Ca | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{46}$Sc | 2005KU43 | RADIOACTIVITY $^{46}$Sc($\beta^-$); measured E$\beta$, electron yields, (electron)$\beta$-coin. JOUR BRSPE 69 1848 |
| | 2005KU44 | RADIOACTIVITY $^{46}$Sc($\beta^-$); measured E$\gamma$, I$\gamma$, (electron)$\gamma$-coin. JOUR BRSPE 69 1852 |
| | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| $^{46}$Ti | 2005KU43 | RADIOACTIVITY $^{46}$Sc($\beta^-$); measured E$\beta$, electron yields, (electron)$\beta$-coin. JOUR BRSPE 69 1848 |
| | 2005KU44 | RADIOACTIVITY $^{46}$Sc($\beta^-$); measured E$\gamma$, I$\gamma$, (electron)$\gamma$-coin. JOUR BRSPE 69 1852 |

**A=46 *(continued)***

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|---|---|---|
| | 2006TO10 | NUCLEAR REACTIONS $^{46,48}$Ti($\alpha$, $\alpha$'), E=240 MeV; measured E$\alpha$, $\sigma$(E, $\theta$). $^{46,48}$Ti deduced isoscalar monopole, dipole, and quadrupole strength distributions, resonance features. JOUR PRVCA 74 044308 |
| $^{46}$V | 2006ER08 | ATOMIC MASSES $^{26m}$Al, $^{42}$Sc, $^{46}$V; measured masses; deduced Q(EC). Comparison with previous results, implications for CKM matrix element discussed. JOUR PRLTA 97 232501 |
| | 2006FAZZ | NUCLEAR REACTIONS $^{46,47}$Ti($^{3}$He, t), E=27 MeV; measured triton spectra; deduced IAS excitation. $^{46}$V deduced Q(EC). $^{46,48}$Ti(d, p), E=14 MeV; measured Ep. $^{47}$V deduced neutron separation energy. REPT MLL 2005 Annual, P7,Faestermann |

## A=47

| | | |
|---|---|---|
| $^{47}$K | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{47}$Ca | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{47}$Ti | 2006FAZZ | NUCLEAR REACTIONS $^{46,47}$Ti($^{3}$He, t), E=27 MeV; measured triton spectra; deduced IAS excitation. $^{46}$V deduced Q(EC). $^{46,48}$Ti(d, p), E=14 MeV; measured Ep. $^{47}$V deduced neutron separation energy. REPT MLL 2005 Annual, P7,Faestermann |
| $^{47}$V | 2006FAZZ | NUCLEAR REACTIONS $^{46,47}$Ti($^{3}$He, t), E=27 MeV; measured triton spectra; deduced IAS excitation. $^{46}$V deduced Q(EC). $^{46,48}$Ti(d, p), E=14 MeV; measured Ep. $^{47}$V deduced neutron separation energy. REPT MLL 2005 Annual, P7,Faestermann |

## A=48

| | | |
|---|---|---|
| $^{48}$K | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |

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

| | | |
|---|---|---|
| $^{48}$Sc | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006RO34 | NUCLEAR REACTIONS $^{2}$H($^{48}$Ca, X)$^{48}$Sc / $^{47}$Ca / $^{46}$Ca / $^{48}$K / $^{47}$K / $^{46}$K / $^{45}$K / $^{44}$K / $^{45}$Ar / $^{44}$Ar / $^{42}$Ar / $^{42}$Cl / $^{40}$Cl / $^{39}$Cl, E=102 MeV / nucleon; $^{2}$H($^{40}$S, X)$^{40}$Cl / $^{39}$S / $^{38}$S / $^{37}$P / $^{36}$P / $^{34}$Si / $^{33}$Si / $^{32}$Al / $^{31}$Al, E=99.3 MeV / nucleon; $^{2}$H($^{42}$S, X)$^{42}$Cl / $^{42}$S / $^{40}$S / $^{39}$P / $^{38}$P / $^{37}$P / $^{36}$Si / $^{35}$Si / $^{33}$Al / $^{32}$Al, E=99.8 MeV / nucleon; measured production $\sigma$. Comparison with model predictions, fragmentation from Be and Ta targets. JOUR PRVCA 74 034602 |
| $^{48}$Ti | 2006TO10 | NUCLEAR REACTIONS $^{46,48}$Ti($\alpha$, $\alpha$'), E=240 MeV; measured E$\alpha$, $\sigma$(E, $\theta$). $^{46,48}$Ti deduced isoscalar monopole, dipole, and quadrupole strength distributions, resonance features. JOUR PRVCA 74 044308 |
| $^{48}$V | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006BE45 | NUCLEAR REACTIONS $^{10}$B($^{40}$Ca, 2n), ($^{40}$Ca, 2p), E=110 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (recoil)$\gamma$-coin. $^{48}$Mn deduced high-spin levels, J, $\pi$, mirror energy differences. Gammasphere array, mass separator. JOUR PRLTA 97 132501 |
| $^{48}$Mn | 2006BE45 | NUCLEAR REACTIONS $^{10}$B($^{40}$Ca, 2n), ($^{40}$Ca, 2p), E=110 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (recoil)$\gamma$-coin. $^{48}$Mn deduced high-spin levels, J, $\pi$, mirror energy differences. Gammasphere array, mass separator. JOUR PRLTA 97 132501 |

## A=49

| | | |
|---|---|---|
| $^{49}$Ti | 2006FAZZ | NUCLEAR REACTIONS $^{46,47}$Ti($^{3}$He, t), E=27 MeV; measured triton spectra; deduced IAS excitation. $^{46}$V deduced Q(EC). $^{46,48}$Ti(d, p), E=14 MeV; measured Ep. $^{47}$V deduced neutron separation energy. REPT MLL 2005 Annual, P7,Faestermann |

## A=50

| | | |
|---|---|---|
| $^{50}$Ti | 2006LEZQ | NUCLEAR REACTIONS $^{50}$Ti($^{138}$Xe, $^{138}$Xe'), E=2.8 MeV / nucleon; measured E$\gamma$, I$\gamma$($\theta$, H, t), $\gamma\gamma$-, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{138}$Xe deduced transition. Miniball array. REPT MLL 2005 Annual, P15,Leske |

## A=51

No references found

## A=52

| | | |
|---|---|---|
| $^{52}$Mn | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma$($^{12}$C), relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |

## A=53

No references found

## A=54

| | | |
|---|---|---|
| $^{54}$Cr | 2006GAZV | NUCLEAR REACTIONS $^{238}$U($^{82}$Se, X), E=505 MeV; $^{238}$U($^{64}$Ni, X), E=400 MeV; $^{208}$Pb($^{36}$S, X), E=230 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, fragments isotopic yields. $^{81}$Ga, $^{83}$Ge, $^{83}$As deduced transitions. $^{36}$Si, $^{54,58,60}$Cr deduced levels, J, $\pi$. CLARA array, PRISMA spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P85 |
| $^{54}$Ni | 2006GA33 | NUCLEAR REACTIONS $^{24}$Mg($^{32}$S, 2n), E=75 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-, (neutron)$\gamma$-coin. $^{54}$Ni deduced levels, J, $\pi$. Euroball IV, Euclides arrays. Level systematics in neighboring isobars discussed. JOUR PRLTA 97 152501; Erratum Phys.Rev.Lett. 97, 199901 (2006) |

## A=55

| | | |
|---|---|---|
| $^{55}$Co | 2007AL01 | NUCLEAR REACTIONS Ni(p, X)$^{56}$Ni / $^{57}$Ni / $^{55}$Co / $^{56}$Co / $^{57}$Co / $^{58}$Co / $^{60}$Cu / $^{61}$Cu, E $\approx$ 5-27 MeV; measured excitation functions. Stacked foil activation technique, comparison with previous results. JOUR ARISE 65 104 |

## A=56

| | | |
|---|---|---|
| $^{56}$Cr | 2006GA35 | NUCLEAR REACTIONS $^{9}$Be($^{57}$Cr, $^{56}$CrX), E=77 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, parallel momentum distribution; deduced $\sigma$. $^{56}$Cr deduced levels, spectroscopic factors. JOUR PRVCA 74 047302 |

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

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|---|---|---|
| $^{56}$Mn | 2006BAZT | NUCLEAR REACTIONS $^{112,118,120,124}$Sn($^{12}$C, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=2200 MeV / nucleon; $^{112,118,120,124}$Sn(p, X)$^{7}$Be / $^{22}$Na / $^{24}$Na / $^{28}$Mg / $^{38}$S / $^{39}$Cl / $^{42}$K / $^{43}$K / $^{43}$Sc / $^{44m}$Sc / $^{46}$Sc / $^{48}$Sc / $^{48}$V / $^{52}$Mn / $^{56}$Mn, E=3650 MeV; measured production $\sigma(^{12}C)$, relative yields. Nuclotron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P151,Balabekyan |
| | 2006VO12 | RADIOACTIVITY $^{183}$Hf($\beta^-$) [from $^{182}$Hf(n, $\gamma$)]; $^{56}$Mn, $^{116m}$In, $^{180m}$Hf; measured E$\gamma$, I$\gamma$, $T_{1/2}$. Comparisons with previous results. JOUR PRVCA 74 057303 |
| $^{56}$Co | 2007AL01 | NUCLEAR REACTIONS Ni(p, X)$^{56}$Ni / $^{57}$Ni / $^{55}$Co / $^{56}$Co / $^{57}$Co / $^{58}$Co / $^{60}$Cu / $^{61}$Cu, E ≈ 5-27 MeV; measured excitation functions. Stacked foil activation technique, comparison with previous results. JOUR ARISE 65 104 |
| $^{56}$Ni | 2007AL01 | NUCLEAR REACTIONS Ni(p, X)$^{56}$Ni / $^{57}$Ni / $^{55}$Co / $^{56}$Co / $^{57}$Co / $^{58}$Co / $^{60}$Cu / $^{61}$Cu, E ≈ 5-27 MeV; measured excitation functions. Stacked foil activation technique, comparison with previous results. JOUR ARISE 65 104 |

## A=57

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|---|---|---|
| $^{57}$Co | 2007AL01 | NUCLEAR REACTIONS Ni(p, X)$^{56}$Ni / $^{57}$Ni / $^{55}$Co / $^{56}$Co / $^{57}$Co / $^{58}$Co / $^{60}$Cu / $^{61}$Cu, E ≈ 5-27 MeV; measured excitation functions. Stacked foil activation technique, comparison with previous results. JOUR ARISE 65 104 |
| $^{57}$Ni | 2007AL01 | NUCLEAR REACTIONS Ni(p, X)$^{56}$Ni / $^{57}$Ni / $^{55}$Co / $^{56}$Co / $^{57}$Co / $^{58}$Co / $^{60}$Cu / $^{61}$Cu, E ≈ 5-27 MeV; measured excitation functions. Stacked foil activation technique, comparison with previous results. JOUR ARISE 65 104 |

## A=58

| | | |
|---|---|---|
| $^{58}$Cr | 2006GAZV | NUCLEAR REACTIONS $^{238}$U($^{82}$Se, X), E=505 MeV; $^{238}$U($^{64}$Ni, X), E=400 MeV; $^{208}$Pb($^{36}$S, X), E=230 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, fragments isotopic yields. $^{81}$Ga, $^{83}$Ge, $^{83}$As deduced transitions. $^{36}$Si, $^{54,58,60}$Cr deduced levels, J, $\pi$. CLARA array, PRISMA spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P85 |
| $^{58}$Co | 2006CO14 | NUCLEAR REACTIONS $^{12}$C, $^{58}$Ni(t, $^{3}$He), E=115 MeV / nucleon; measured particle spectra, $\sigma(\theta)$. $^{58}$Co deduced Gamow-Teller strength distribution. Comparison with previous results, model predictions. JOUR PRVCA 74 034333 |
| | 2007AL01 | NUCLEAR REACTIONS Ni(p, X)$^{56}$Ni / $^{57}$Ni / $^{55}$Co / $^{56}$Co / $^{57}$Co / $^{58}$Co / $^{60}$Cu / $^{61}$Cu, E ≈ 5-27 MeV; measured excitation functions. Stacked foil activation technique, comparison with previous results. JOUR ARISE 65 104 |

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

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|---|---|---|
| $^{58}$Ni | 2006EK01 | NUCLEAR REACTIONS $^{58}$Ni($^{110}$Sn, $^{110}$Sn'), E=2.8 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{110}$Sn deduced transition B(E2). JOUR PHSTB T125 190 |

## A=59

No references found

## A=60

| | | |
|---|---|---|
| $^{60}$Cr | 2006GAZV | NUCLEAR REACTIONS $^{238}$U($^{82}$Se, X), E=505 MeV; $^{238}$U($^{64}$Ni, X), E=400 MeV; $^{208}$Pb($^{36}$S, X), E=230 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, fragments isotopic yields. $^{81}$Ga, $^{83}$Ge, $^{83}$As deduced transitions. $^{36}$Si, $^{54,58,60}$Cr deduced levels, J, $\pi$. CLARA array, PRISMA spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P85 |
| $^{60}$Cu | 2007AL01 | NUCLEAR REACTIONS Ni(p, X)$^{56}$Ni / $^{57}$Ni / $^{55}$Co / $^{56}$Co / $^{57}$Co / $^{58}$Co / $^{60}$Cu / $^{61}$Cu, E $\approx$ 5-27 MeV; measured excitation functions. Stacked foil activation technique, comparison with previous results. JOUR ARISE 65 104 |

## A=61

| | | |
|---|---|---|
| $^{61}$Cu | 2006RO41 | NUCLEAR REACTIONS Zn(p, X)$^{61}$Cu, E=22 MeV; measured yield. Radiochemical separation. JOUR ARISE 64 1563 |
| | 2007AL01 | NUCLEAR REACTIONS Ni(p, X)$^{56}$Ni / $^{57}$Ni / $^{55}$Co / $^{56}$Co / $^{57}$Co / $^{58}$Co / $^{60}$Cu / $^{61}$Cu, E $\approx$ 5-27 MeV; measured excitation functions. Stacked foil activation technique, comparison with previous results. JOUR ARISE 65 104 |
| $^{61}$Zn | 2006AN31 | NUCLEAR REACTIONS $^{40}$Ca($^{24}$Mg, n2p), E=104 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (recoil)$\gamma$-coin. $^{61}$Zn deduced levels, J, $\pi$, configurations, superdeformed band features. Clarion array, large-scale shell model calculations. JOUR ZAANE 30 381 |

## A=62

| | | |
|---|---|---|
| $^{62}$Cu | 2006GO32 | NUCLEAR MOMENTS $^{62}$Cu; measured nuclear spin-lattice relaxation rate in iron. JOUR PRVCA 74 044313 |

## A=63

No references found

## A=64

| | | |
|---|---|---|
| $^{64}$Fe | 2006HOZY | NUCLEAR REACTIONS $^{238}$U($^{64}$Ni, X)$^{64}$Fe / $^{69}$Ga, E=430 MeV; measured prompt and delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{64}$Fe deduced levels, J, $\pi$, configurations. Gammasphere array, comparison with shell model predictions. Level systematics in neighboring nuclides discussed. PREPRINT Hoteling,11/2/2006 |
| $^{64}$Ni | 2006FE11 | RADIOACTIVITY $^{64}$Cu($\beta^+$); measured near-zero-energy electron yields vs source thickness. JOUR UKPJA 51 1044 |
| $^{64}$Cu | 2006FE11 | RADIOACTIVITY $^{64}$Cu($\beta^+$); measured near-zero-energy electron yields vs source thickness. JOUR UKPJA 51 1044 |
| $^{64}$Ge | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=65

| | | |
|---|---|---|
| $^{65}$Fe | 2006DAZX | NUCLEAR REACTIONS Be, C, Ni, Ta($^{86}$Kr, X)$^{65}$Fe / $^{67}$Fe / $^{68}$Fe, E not given; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (recoil)$\gamma$-coin. $^{65,67,68}$Fe deduced levels, J, $\pi$.$^{65,67}$Fe deduced isomeric states $T_{1/2}$. CONF Isle of Kos (FINUSTAR),Proc,P427 |
| $^{65}$Ni | 2006GE16 | NUCLEAR REACTIONS $^{64}$Ni(d, p), E=6 MeV; measured E$\gamma$, I$\gamma$($\theta$, H, t). $^{65}$Ni deduced isomeric state g. Time-dependent perturbed angular distribution method. JOUR ZAANE 30 351 |
| $^{65}$Ge | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=66

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|---|---|---|
| $^{66}$Ge | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{66}$As | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=67

| | | |
|---|---|---|
| $^{67}$Fe | 2006DAZX | NUCLEAR REACTIONS Be, C, Ni, Ta($^{86}$Kr, X)$^{65}$Fe / $^{67}$Fe / $^{68}$Fe, E not given; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (recoil)$\gamma$-coin. $^{65,67,68}$Fe deduced levels, J, $\pi$.$^{65,67}$Fe deduced isomeric states $T_{1/2}$. CONF Isle of Kos (FINUSTAR),Proc,P427 |
| $^{67}$Ga | 2005NE18 | NUCLEAR REACTIONS $^{66}$Zn(p, $\gamma$), E=1.5-3.0 MeV; measured E$\gamma$, I$\gamma$; deduced $\sigma$(E). JOUR BRSPE 69 1809 |
| $^{67}$Ge | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{67}$As | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=68

| | | |
|---|---|---|
| $^{68}$Fe | 2006DAZX | NUCLEAR REACTIONS Be, C, Ni, Ta($^{86}$Kr, X)$^{65}$Fe / $^{67}$Fe / $^{68}$Fe, E not given; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (recoil)$\gamma$-coin. $^{65,67,68}$Fe deduced levels, J, $\pi$.$^{65,67}$Fe deduced isomeric states $T_{1/2}$. CONF Isle of Kos (FINUSTAR),Proc,P427 |
| $^{68}$Cu | 2006GE18 | NUCLEAR REACTIONS $^{120}$Sn($^{68}$Cu, $^{68}$Cu'), ($^{70}$Cu, $^{70}$Cu'), E=2.86 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{68,70}$Cu deduced transitions B(E2). Isomeric beams. JOUR IMPEE 15 1505 |
| $^{68}$Ge | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{68}$As | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{68}$Se | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=69

| | | |
|---|---|---|
| $^{69}$Ga | 2006HOZY | NUCLEAR REACTIONS $^{238}$U($^{64}$Ni, X)$^{64}$Fe / $^{69}$Ga, E=430 MeV; measured prompt and delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{64}$Fe deduced levels, J, $\pi$, configurations. Gammasphere array, comparison with shell model predictions. Level systematics in neighboring nuclides discussed. PREPRINT Hoteling,11/2/2006 |
| | 2006RA25 | NUCLEAR MOMENTS $^{69}$Ga; measured NMR spectra, light-induced hyperfine shifts. JOUR PRBMD 74 153201 |
| $^{69}$As | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{69}$Se | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=70

| | | |
|---|---|---|
| $^{70}$Cu | 2006GE18 | NUCLEAR REACTIONS $^{120}$Sn($^{68}$Cu, $^{68}$Cu'), ($^{70}$Cu, $^{70}$Cu'), E=2.86 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{68,70}$Cu deduced transitions B(E2). Isomeric beams. JOUR IMPEE 15 1505 |
| $^{70}$As | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{70}$Se | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{70}$Br | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=71

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|---|---|---|
| $^{71}$Ge | 2006GA38 | NUCLEAR REACTIONS $^{71}$Ga($\nu$, e), E=spectrum; measured production rate using $^{37}$Ar neutrino source. Comparison with model predictions, implications for solar neutrino experiment discussed. JOUR PANUE 69 1820 |

**A=71 *(continued)***

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|---|---|---|
| $^{71}$Se | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{71}$Br | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=72

| | | |
|---|---|---|
| $^{72}$Ni | 2005THZX | RADIOACTIVITY $^{72}$Ni, $^{72}$Cu($\beta^-$) [from $^{238}$U(p, F)]; measured $\beta$-delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $T_{1/2}$. $^{72}$Cu, $^{72}$Zn deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P131 |
| | 2006TH12 | RADIOACTIVITY $^{72}$Ni, $^{72}$Cu($\beta^-$) [from $^{238}$U(p, F)]; measured E$\gamma$, I$\gamma$, $\beta\gamma$-coin, $T_{1/2}$; deduced log ft. $^{72}$Cu, $^{72}$Zn deduced levels, J, $\pi$, configurations. JOUR PRVCA 74 054309 |
| $^{72}$Cu | 2005THZX | RADIOACTIVITY $^{72}$Ni, $^{72}$Cu($\beta^-$) [from $^{238}$U(p, F)]; measured $\beta$-delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $T_{1/2}$. $^{72}$Cu, $^{72}$Zn deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P131 |
| | 2006TH12 | RADIOACTIVITY $^{72}$Ni, $^{72}$Cu($\beta^-$) [from $^{238}$U(p, F)]; measured E$\gamma$, I$\gamma$, $\beta\gamma$-coin, $T_{1/2}$; deduced log ft. $^{72}$Cu, $^{72}$Zn deduced levels, J, $\pi$, configurations. JOUR PRVCA 74 054309 |
| $^{72}$Zn | 2005THZX | RADIOACTIVITY $^{72}$Ni, $^{72}$Cu($\beta^-$) [from $^{238}$U(p, F)]; measured $\beta$-delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $T_{1/2}$. $^{72}$Cu, $^{72}$Zn deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P131 |
| | 2006TH12 | RADIOACTIVITY $^{72}$Ni, $^{72}$Cu($\beta^-$) [from $^{238}$U(p, F)]; measured E$\gamma$, I$\gamma$, $\beta\gamma$-coin, $T_{1/2}$; deduced log ft. $^{72}$Cu, $^{72}$Zn deduced levels, J, $\pi$, configurations. JOUR PRVCA 74 054309 |
| $^{72}$Se | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{72}$Br | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{72}$Kr | 2006AN35 | NUCLEAR REACTIONS $^{40}$Ca($^{40}$Ca, 2$\alpha$), E=165 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin, DSA. $^{72}$Kr deduced high-spin levels, J, $\pi$, configurations, transition quadrupole moments, $T_{1/2}$. Gammasphere, Microball arrays. JOUR PHSTB T125 127 |

**A=72 *(continued)***

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|---|---|---|
| | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=73

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|---|---|---|
| $^{73}$Br | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{73}$Kr | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=74

| | | |
|---|---|---|
| $^{74}$Zn | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{74}$Ga | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{74}$Ge | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |
| $^{74}$As | 2006DO24 | NUCLEAR REACTIONS $^{75}$As(n, p), (n, 2n), E=spectrum; measured spectrum-averaged $\sigma$. Neutrons from fission of $^{235}$U. JOUR JRNCD 270 603 |
| $^{74}$Br | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

**A=74 *(continued)***

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|---|---|---|
| $^{74}$Kr | 2006VAZX | NUCLEAR REACTIONS $^{40}$Ca($^{40}$Ca, 2p$\alpha$), E=165, 185 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, DSA. $^{74}$Kr deduced high-spin levels, J, $\pi$, $T_{1/2}$, transition quadrupole moments. Gammasphere, Euroball, Microball, and ISIS arrays. CONF Isle of Kos (FINUSTAR),Proc,P283 |
| | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |
| $^{74}$Rb | 2006FI08 | NUCLEAR REACTIONS $^{40}$Ca($^{40}$Ca, np$\alpha$), E=123, 160 MeV; $^{40}$Ca($^{36}$Ar, np), E=108 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-, (neutron)$\gamma$-coin. $^{74}$Rb deduced high-spin levels, J, $\pi$, configurations, analog states features. Gammasphere, Microball arrays, mass separator. JOUR PRVCA 74 054304 |

## A=75

| | | |
|---|---|---|
| $^{75}$Ge | 2006DO24 | NUCLEAR REACTIONS $^{75}$As(n, p), (n, 2n), E=spectrum; measured spectrum-averaged $\sigma$. Neutrons from fission of $^{235}$U. JOUR JRNCD 270 603 |
| $^{75}$Kr | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=76

| | | |
|---|---|---|
| $^{76}$Zn | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{76}$Ge | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |
| $^{76}$Kr | 2006YA17 | NUCLEAR REACTIONS $^{9}$Be($^{80}$Kr, X)$^{76}$Kr / $^{75}$Kr / $^{74}$Kr / $^{73}$Kr / $^{72}$Kr / $^{74}$Br / $^{73}$Br / $^{72}$Br / $^{71}$Br / $^{70}$Br / $^{72}$Se / $^{71}$Se / $^{70}$Se / $^{69}$Se / $^{68}$Se / $^{70}$As / $^{69}$As / $^{68}$As / $^{67}$As / $^{66}$As / $^{68}$Ge / $^{67}$Ge / $^{66}$Ge / $^{65}$Ge / $^{64}$Ge, E=1.05 GeV / nucleon; measured fragments isotopic production $\sigma$. JOUR PRVCA 74 044608 |

## A=77

| | | |
|---|---|---|
| $^{77}$Zn | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |

## A=78

| | | |
|---|---|---|
| $^{78}$Zn | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{78}$Ga | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{78}$Ge | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |

## A=79

| | | |
|---|---|---|
| $^{79}$Se | 2006RUZX | NUCLEAR REACTIONS $^{58}$Ni, $^{78}$Se(n, $\gamma$), E=spectrum; measured capture $\sigma$. Astrophysical implications discussed. REPT MLL 2005 Annual, P27,Rugel |

## A=80

| | | |
|---|---|---|
| $^{80}$Zn | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{80}$Ga | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |

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

| | | |
|---|---|---|
| $^{80}$Ge | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |
| $^{80}$Rb | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{80}$Y | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=81

| | | |
|---|---|---|
| $^{81}$Zn | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| | 2005KOZU | RADIOACTIVITY $^{81}$Zn, $^{81}$Ga, $^{81}$Ge, $^{81}$Rb($\beta^-$) [from $^{238}$U(n, X)]; measured E$\gamma$, I$\gamma$. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| | 2006VEZZ | RADIOACTIVITY $^{81}$Zn, $^{83}$Ga($\beta^-$) [from U(n, F)]; measured not given. $^{81}$Ga, $^{83}$Ge deduced levels, J, $\pi$, configurations. PREPRINT nucl-ex/0610012,10/06/2006 |
| $^{81}$Ga | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| | 2005KOZU | RADIOACTIVITY $^{81}$Zn, $^{81}$Ga, $^{81}$Ge, $^{81}$Rb($\beta^-$) [from $^{238}$U(n, X)]; measured E$\gamma$, I$\gamma$. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| | 2006GAZV | NUCLEAR REACTIONS $^{238}$U($^{82}$Se, X), E=505 MeV; $^{238}$U($^{64}$Ni, X), E=400 MeV; $^{208}$Pb($^{36}$S, X), E=230 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, fragments isotopic yields. $^{81}$Ga, $^{83}$Ge, $^{83}$As deduced transitions. $^{36}$Si, $^{54,58,60}$Cr deduced levels, J, $\pi$. CLARA array, PRISMA spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P85 |
| | 2006VEZZ | RADIOACTIVITY $^{81}$Zn, $^{83}$Ga($\beta^-$) [from U(n, F)]; measured not given. $^{81}$Ga, $^{83}$Ge deduced levels, J, $\pi$, configurations. PREPRINT nucl-ex/0610012,10/06/2006 |
| $^{81}$Ge | 2005KOZU | RADIOACTIVITY $^{81}$Zn, $^{81}$Ga, $^{81}$Ge, $^{81}$Rb($\beta^-$) [from $^{238}$U(n, X)]; measured E$\gamma$, I$\gamma$. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |

**A=81 *(continued)***

| | | |
|---|---|---|
| $^{81}$As | 2005KOZU | RADIOACTIVITY $^{81}$Zn, $^{81}$Ga, $^{81}$Ge, $^{81}$Rb($\beta^-$) [from $^{238}$U(n, X)]; measured E$\gamma$, I$\gamma$. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{81}$Rb | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| | 2005KOZU | RADIOACTIVITY $^{81}$Zn, $^{81}$Ga, $^{81}$Ge, $^{81}$Rb($\beta^-$) [from $^{238}$U(n, X)]; measured E$\gamma$, I$\gamma$. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{81}$Sr | 2005KOZU | RADIOACTIVITY $^{81}$Zn, $^{81}$Ga, $^{81}$Ge, $^{81}$Rb($\beta^-$) [from $^{238}$U(n, X)]; measured E$\gamma$, I$\gamma$. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{81}$Y | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=82

| | | |
|---|---|---|
| $^{82}$Ga | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{82}$Ge | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |
| $^{82}$Rb | 2005KOZU | NUCLEAR REACTIONS $^{238}$U(n, X)$^{74}$Zn / $^{76}$Zn / $^{77}$Zn / $^{78}$Zn / $^{80}$Zn / $^{81}$Zn / $^{74}$Ga / $^{78}$Ga / $^{80}$Ga / $^{81}$Ga / $^{82}$Ga / $^{80}$Rb / $^{81}$Rb / $^{82}$Rb, E=spectrum; measured yields. Neutron converter, resonant laser ionization. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P315 |
| $^{82}$Sr | 2007QA01 | NUCLEAR REACTIONS Rb(p, xn)$^{85}$Sr, E=25-45 MeV; measured $\sigma$. Rb(p, xn)$^{82}$Sr / $^{85}$Sr, E $\approx$ 5-80 MeV; compiled, analyzed $\sigma$; deduced integral yields. JOUR ARISE 65 247 |
| $^{82}$Y | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=83

| | | |
|---|---|---|
| $^{83}$Ga | 2006VEZZ | RADIOACTIVITY $^{81}$Zn, $^{83}$Ga($\beta^-$) [from U(n, F)]; measured not given. $^{81}$Ga, $^{83}$Ge deduced levels, J, $\pi$, configurations. PREPRINT nucl-ex/0610012,10/06/2006 |

**A=83 *(continued)***

| | | |
|---|---|---|
| $^{83}$Ge | 2006GAZV | NUCLEAR REACTIONS $^{238}$U($^{82}$Se, X), E=505 MeV; $^{238}$U($^{64}$Ni, X), E=400 MeV; $^{208}$Pb($^{36}$S, X), E=230 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, fragments isotopic yields. $^{81}$Ga, $^{83}$Ge, $^{83}$As deduced transitions. $^{36}$Si, $^{54,58,60}$Cr deduced levels, J, $\pi$. CLARA array, PRISMA spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P85 |
| | 2006VEZZ | RADIOACTIVITY $^{81}$Zn, $^{83}$Ga($\beta^-$) [from U(n, F)]; measured not given. $^{81}$Ga, $^{83}$Ge deduced levels, J, $\pi$, configurations. PREPRINT nucl-ex/0610012,10/06/2006 |
| $^{83}$As | 2006GAZV | NUCLEAR REACTIONS $^{238}$U($^{82}$Se, X), E=505 MeV; $^{238}$U($^{64}$Ni, X), E=400 MeV; $^{208}$Pb($^{36}$S, X), E=230 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin, fragments isotopic yields. $^{81}$Ga, $^{83}$Ge, $^{83}$As deduced transitions. $^{36}$Si, $^{54,58,60}$Cr deduced levels, J, $\pi$. CLARA array, PRISMA spectrometer. CONF Isle of Kos (FINUSTAR),Proc,P85 |
| $^{83}$Se | 2006FO13 | NUCLEAR REACTIONS $^{208}$Pb($^{18}$O, F)$^{83}$Se / $^{138}$Ba / $^{139}$Ba / $^{140}$Ba, E=91 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{83}$Se deduced high-spin levels, J, $\pi$, configurations. Gammasphere array. JOUR PRVCA 74 034308 |
| $^{83}$Y | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |
| $^{83}$Zr | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=84

| | | |
|---|---|---|
| $^{84}$Se | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |
| $^{84}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |
| | 2006SC22 | NUCLEAR REACTIONS $^{82}$Se($\alpha$, 2n), E=24 MeV; measured delayed E$\gamma$, I$\gamma$($\theta$, H, t) following implantation in Cd. $^{84}$Kr deduced isomeric state quadrupole moment. Quadrupole systematics in neighboring nuclides compared. JOUR PRVCA 74 034309 |
| $^{84}$Zr | 2006CH57 | NUCLEAR REACTIONS $^{58}$Ni($^{32}$S, 2p$\alpha$), E=140 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{84}$Zr deduced superdeformed band transitions, linking transitions to normal-deformed states. Gammasphere, Microball arrays. JOUR PHSTB T125 119 |
| | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=85

| | | |
|---|---|---|
| $^{85}$Sr | 2007QA01 | NUCLEAR REACTIONS Rb(p, xn)$^{85}$Sr, E=25-45 MeV; measured $\sigma$. Rb(p, xn)$^{82}$Sr / $^{85}$Sr, E $\approx$ 5-80 MeV; compiled, analyzed $\sigma$; deduced integral yields. JOUR ARISE 65 247 |

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

| | | |
|---|---|---|
| $^{85}$Zr | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |
| $^{85}$Nb | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=86

| | | |
|---|---|---|
| $^{86}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |
| $^{86}$Zr | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |
| $^{86}$Nb | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=87

| | | |
|---|---|---|
| $^{87}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |
| $^{87}$Nb | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=88

| | | |
|---|---|---|
| $^{88}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |
| $^{88}$Sr | 2006GOZX | NUCLEAR REACTIONS $^{88}$Sr(n, n'$\gamma$) E=fast; measured I$\gamma(\theta)$. $^{88}$Sr deduced mixing ratio $\delta$. Reactor. CONF Sarov(Nucleus-2006),Contrib,P105,Govor |
| $^{88}$Zr | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |
| $^{88}$Nb | 2006KA48 | ATOMIC MASSES $^{80,81,82,83}$Y, $^{83,84,85,86,88}$Zr, $^{85,86,87,88}$Nb; measured masses. Penning trap. JOUR ZAANE 29 271 |

## A=89

| | | |
|---|---|---|
| $^{89}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |

## A=90

| | | |
|---|---|---|
| $^{90}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |

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

| | | |
|---|---|---|
| $^{90}$Zr | 2006HA50 | NUCLEAR REACTIONS $^{208}$Pb($\alpha$, $\alpha$'p), E=200 MeV; measured Ep, E$\alpha$, $\sigma$(E, $\theta$). $^{90}$Zr, $^{116}$Sn, $^{208}$Pb($\alpha$, $\alpha$'n), E=200 MeV; measured En, E$\alpha$. $^{90}$Zr, $^{116}$Sn, $^{208}$Pb deduced branching ratios for particle decay of isoscalar GDR. Comparison with model predictions. JOUR IMPEE 15 1357 |

## A=91

| | | |
|---|---|---|
| $^{91}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |

## A=92

| | | |
|---|---|---|
| $^{92}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |
| $^{92}$Zr | 2006URZZ | NUCLEAR REACTIONS $^{208}$Pb($^{90}$Zr, X), E=560 MeV; measured fragments isotopic yields following multinucleon transfer, velocity distributions, E$\gamma$, I$\gamma$. $^{208}$Pb($^{90}$Zr, $^{90}$Zr), E=560 MeV; measured $\sigma(\theta)$. $^{92}$Zr deduced transitions. CONF San Servolo(Fusion06),Proc,P43 |

## A=93

| | | |
|---|---|---|
| $^{93}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |

## A=94

| | | |
|---|---|---|
| $^{94}$Kr | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |

## A=95

| | | |
|---|---|---|
| $^{95}$Kr | 2005PIZX | NUCLEAR REACTIONS $^{239,241}$Pu(n, F)$^{95}$Kr / $^{97}$Sr / $^{96}$Rb, E=thermal; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{96}$Rb deduced levels, J, $\pi$, shape coexistence features. Eurogam 2 array. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P149 |
| | 2006DE36 | ATOMIC MASSES $^{84,86,87,88,89,90,91,92,93,94,95}$Kr; measured masses. Penning trap mass spectrometer. JOUR PRVCA 74 034331 |

## A=96

| | | |
|---|---|---|
| $^{96}$Rb | 2005PIZX | NUCLEAR REACTIONS $^{239,241}$Pu(n, F)$^{95}$Kr / $^{97}$Sr / $^{96}$Rb, E=thermal; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{96}$Rb deduced levels, J, $\pi$, shape coexistence features. Eurogam 2 array. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P149 |
| $^{96}$Mo | 2006BEZN | NUCLEAR REACTIONS $^{96}$Mo($^{138}$Xe, $^{138}$Xe'), ($^{140}$Xe, $^{140}$Xe'), ($^{142}$Xe, $^{142}$Xe'), E not given; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. Miniball array. REPT MLL 2005 Annual, P16,Behrens |

## A=97

| | | |
|---|---|---|
| $^{97}$Sr | 2005PIZX | RADIOACTIVITY $^{248}$Cm(SF); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{97}$Sr, $^{99,101}$Zr deduced levels, J, $\pi$, shape coexistence features. Eurogam 2 array. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P149 |
| | 2005PIZX | NUCLEAR REACTIONS $^{239,241}$Pu(n, F)$^{95}$Kr / $^{97}$Sr / $^{96}$Rb, E=thermal; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{96}$Rb deduced levels, J, $\pi$, shape coexistence features. Eurogam 2 array. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P149 |

## A=98

| | | |
|---|---|---|
| $^{98}$Zr | 2005SIZV | RADIOACTIVITY $^{98}$Zr(IT); measured E$\gamma$, I$\gamma$, $T_{1/2}$. $^{98}$Zr deduced levels, J, $\pi$, configurations. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P137 |
| $^{98}$Cd | 2006VE09 | NUCLEAR REACTIONS $^{58}$Ni($^{46}$Ti, xnypz$\alpha$), E=175 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-, (neutron)$\gamma$-coin; deduced isotopic yields. $^{98}$Cd deduced levels, J, $\pi$. Gammasphere, Microball arrays. JOUR PHSTB T125 222 |

## A=99

| | | |
|---|---|---|
| $^{99}$Zr | 2005PIZX | RADIOACTIVITY $^{248}$Cm(SF); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{97}$Sr, $^{99,101}$Zr deduced levels, J, $\pi$, shape coexistence features. Eurogam 2 array. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P149 |
| $^{99}$Mo | 2006JOZY | NUCLEAR REACTIONS $^{27}$Al($^{178}$Hf, X)$^{121}$Sb / $^{123}$Sb / $^{99}$Mo, E=1150 MeV; measured delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{121,123}$Sb, $^{99}$Mo deduced levels, J, $\pi$, configurations, isomeric states $T_{1/2}$. Gammasphere array. CONF San Servolo(Fusion06),Proc,P342 |

## A=100

| | | |
|---|---|---|
| $^{100}$Mo | 2006HO17 | RADIOACTIVITY $^{100}$Mo($2\beta^-$); measured E$\gamma$, I$\gamma$, $T_{1/2}$ for inclusive $2\beta$-decay to excited states. JOUR PRVCA 74 044314 |

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

| | | |
|---|---|---|
| | 2007AR02 | RADIOACTIVITY $^{100}$Mo($2\beta^-$); measured $0\nu\beta\beta$-decay $T_{1/2}$ lower limits, $2\nu\beta\beta$-decay $T_{1/2}$. JOUR NUPAB 781 209 |
| $^{100}$Ru | 2006HO17 | RADIOACTIVITY $^{100}$Mo($2\beta^-$); measured E$\gamma$, I$\gamma$, $T_{1/2}$ for inclusive $2\beta$-decay to excited states. JOUR PRVCA 74 044314 |
| | 2007AR02 | RADIOACTIVITY $^{100}$Mo($2\beta^-$); measured $0\nu\beta\beta$-decay $T_{1/2}$ lower limits, $2\nu\beta\beta$-decay $T_{1/2}$. JOUR NUPAB 781 209 |

## A=101

| | | |
|---|---|---|
| $^{101}$Zr | 2005PIZX | RADIOACTIVITY $^{248}$Cm(SF); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{97}$Sr, $^{99,101}$Zr deduced levels, J, $\pi$, shape coexistence features. Eurogam 2 array. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P149 |

## A=102

| | | |
|---|---|---|
| $^{102}$Ru | 2006TOZX | NUCLEAR REACTIONS $^{208}$Pb($^{102}$Ru, $^{102}$Ru'), E=440 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{102}$Ru deduced levels, J, $\pi$. Gemini-II array. REPT JAEA-Review 2006-029,P25,Toh |
| $^{102}$Pd | 2006KAZU | NUCLEAR REACTIONS $^{92}$Zr($^{13}$C, 3n), E=48 MeV; measured Doppler-shifted E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{102}$Pd levels deduced $T_{1/2}$, B(E2). GASP array, recoil-distance method. CONF Isle of Kos (FINUSTAR),Proc,P472 |

## A=103

| | | |
|---|---|---|
| $^{103}$Pd | 2006ANZU | NUCLEAR REACTIONS $^{98}$Mo($^{12}$C, 3n), ($^{12}$C, 3n$\alpha$), E=60 MeV; measured Doppler-shifted E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{107}$Cd, $^{103}$Pd levels deduced $T_{1/2}$, B(E2). Differential decay curve method. CONF Isle of Kos (FINUSTAR),Proc,P391 |

## A=104

| | | |
|---|---|---|
| $^{104}$Ag | 2006BEZQ | NUCLEAR REACTIONS Ag($\gamma$, 3n)$^{104m}$Ag / $^{104}$Ag; measured E$\gamma$, I$\gamma$(t); deduced yield ratio. Microtron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P90,Belyshev |

## A=105

| | | |
|---|---|---|
| $^{105}$Mo | 2006DI16 | RADIOACTIVITY $^{252}$Cf(SF); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{105}$Mo deduced high-spin levels, J, $\pi$, configurations. Gammasphere array, total Routhian surface calculations, level systematics in neighboring isotopes discussed. JOUR PRVCA 74 054301 |

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

2006DI17 RADIOACTIVITY $^{252}$Cf(SF); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{105}$Mo deduced high-spin levels, J, $\pi$, configurations. Gammasphere array, total Routhian surface calculations, level systematics in neighboring isotopes discussed. JOUR CPLEE 23 3222

## A=106

$^{106}$Sn 2006VAZW NUCLEAR REACTIONS $^{197}$Au($^{106}$Sn, $^{106}$Sn'), ($^{108}$Sn, $^{108}$Sn'), ($^{110}$Sn, $^{110}$Sn'), ($^{112}$Sn, $^{112}$Sn'), E $\approx$ 80 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{106,108,110,112}$Sn deduced transitions B(E2). Comparison with shell model predictions. PREPRINT nucl-ex/0612011,12/08/2006

$^{106}$Te 2006HAZU NUCLEAR REACTIONS $^{54}$Fe($^{54}$Fe, 2n), E=182 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (recoil)$\gamma$-coin; deduced production $\sigma$. $^{106}$Te deduced levels, J, $\pi$. Jurogam array, recoil-decay tagging. CONF Isle of Kos (FINUSTAR),Proc,P457

## A=107

$^{107}$Cd 2006ANZU NUCLEAR REACTIONS $^{98}$Mo($^{12}$C, 3n), ($^{12}$C, 3n$\alpha$), E=60 MeV; measured Doppler-shifted E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{107}$Cd, $^{103}$Pd levels deduced $T_{1/2}$, B(E2). Differential decay curve method. CONF Isle of Kos (FINUSTAR),Proc,P391

## A=108

$^{108}$Sn 2006VAZW NUCLEAR REACTIONS $^{197}$Au($^{106}$Sn, $^{106}$Sn'), ($^{108}$Sn, $^{108}$Sn'), ($^{110}$Sn, $^{110}$Sn'), ($^{112}$Sn, $^{112}$Sn'), E $\approx$ 80 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{106,108,110,112}$Sn deduced transitions B(E2). Comparison with shell model predictions. PREPRINT nucl-ex/0612011,12/08/2006

## A=109

No references found

## A=110

$^{110}$Pd 2006PE26 NUCLEAR REACTIONS $^{110}$Pd($^{18}$O, $^{18}$O'), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{14}$C), E=40-58 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin; deduced excitation functions. Coupled-channels analysis. JOUR PRVCA 74 034608

$^{110}$Sn 2006EK01 NUCLEAR REACTIONS $^{58}$Ni($^{110}$Sn, $^{110}$Sn'), E=2.8 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{110}$Sn deduced transition B(E2). JOUR PHSTB T125 190

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

| | | |
|---|---|---|
| | 2006GU26 | NUCLEAR REACTIONS $^{112}$Sn(p, t), E=26 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{110}$Sn deduced levels, J, $\pi$. Q3D magnetic spectrograph. DWBA analysis, comparison with model predictions. JOUR PRVCA 74 054605 |
| | 2006GUZW | NUCLEAR REACTIONS $^{112}$Sn(p, t), E=26 MeV; measured $\sigma$(E, $\theta$). REPT MLL 2005 Annual, P12,Guazzoni |
| | 2006VAZW | NUCLEAR REACTIONS $^{197}$Au($^{106}$Sn, $^{106}$Sn'), ($^{108}$Sn, $^{108}$Sn'), ($^{110}$Sn, $^{110}$Sn'), ($^{112}$Sn, $^{112}$Sn'), E $\approx$ 80 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{106,108,110,112}$Sn deduced transitions B(E2). Comparison with shell model predictions. PREPRINT nucl-ex/0612011,12/08/2006 |
| $^{110}$Te | 2006EV04 | NUCLEAR REACTIONS $^{58}$Ni($^{58}$Ni, 2p$\alpha$), E=240 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin, DSA. $^{110}$Te deduced transitions B(M1). JOUR PHSTB T125 192 |

## A=111

No references found

## A=112

| | | |
|---|---|---|
| $^{112}$Pd | 2006PE26 | NUCLEAR REACTIONS $^{110}$Pd($^{18}$O, $^{18}$O'), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{14}$C), E=40-58 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin; deduced excitation functions. Coupled-channels analysis. JOUR PRVCA 74 034608 |
| $^{112}$Sn | 2006VAZW | NUCLEAR REACTIONS $^{197}$Au($^{106}$Sn, $^{106}$Sn'), ($^{108}$Sn, $^{108}$Sn'), ($^{110}$Sn, $^{110}$Sn'), ($^{112}$Sn, $^{112}$Sn'), E $\approx$ 80 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{106,108,110,112}$Sn deduced transitions B(E2). Comparison with shell model predictions. PREPRINT nucl-ex/0612011,12/08/2006 |

## A=113

| | | |
|---|---|---|
| $^{113}$In | 2006SA40 | NUCLEAR REACTIONS $^{114}$Cd(p, xn)$^{114m}$In / $^{113m}$In, E $\approx$ 8-17 MeV; measured excitation functions. Stacked-foil activation technique, comparison with previous results. JOUR ARISE 64 1655 |
| | 2006VIZY | NUCLEAR REACTIONS $^{113,115}$In(e$^+$, X)$^{113m}$In / $^{115m}$In, E < 3.9 MeV; measured E$\gamma$; deduced isomer production $\sigma$. Electrostatic accelerator, anti-Compton spectrometer. CONF Sarov(Nucleus-2006),Contrib,P158,Vishnevsky |

## A=114

| | | |
|---|---|---|
| $^{114}$Cd | 2006PE26 | NUCLEAR REACTIONS $^{110}$Pd($^{18}$O, $^{18}$O'), ($^{18}$O, $^{16}$O), ($^{18}$O, $^{14}$C), E=40-58 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin; deduced excitation functions. Coupled-channels analysis. JOUR PRVCA 74 034608 |

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

| | | |
|---|---|---|
| $^{114}$In | 2006SA40 | NUCLEAR REACTIONS $^{114}$Cd(p, xn)$^{114m}$In / $^{113m}$In, E ≈ 8-17 MeV; measured excitation functions. Stacked-foil activation technique, comparison with previous results. JOUR ARISE 64 1655 |

## A=115

| | | |
|---|---|---|
| $^{115}$In | 2006VIZY | NUCLEAR REACTIONS $^{113,115}$In(e$^+$, X)$^{113m}$In / $^{115m}$In, E < 3.9 MeV; measured E$\gamma$; deduced isomer production $\sigma$. Electrostatic accelerator, anti-Compton spectrometer. CONF Sarov(Nucleus-2006),Contrib,P158,Vishnevsky |

## A=116

| | | |
|---|---|---|
| $^{116}$In | 2006VO12 | RADIOACTIVITY $^{183}$Hf($\beta^-$) [from $^{182}$Hf(n, $\gamma$)]; $^{56}$Mn, $^{116m}$In, $^{180m}$Hf; measured E$\gamma$, I$\gamma$, $T_{1/2}$. Comparisons with previous results. JOUR PRVCA 74 057303 |
| $^{116}$Sn | 2006GUZV | NUCLEAR REACTIONS $^{118}$Sn(p, t), E=24.6 MeV; measured $\sigma$(E, $\theta$). REPT MLL 2005 Annual, P13,Guazzoni |
| | 2006HA50 | NUCLEAR REACTIONS $^{208}$Pb($\alpha$, $\alpha$'p), E=200 MeV; measured Ep, E$\alpha$, $\sigma$(E, $\theta$). $^{90}$Zr, $^{116}$Sn, $^{208}$Pb($\alpha$, $\alpha$'n), E=200 MeV; measured En, E$\alpha$. $^{90}$Zr, $^{116}$Sn, $^{208}$Pb deduced branching ratios for particle decay of isoscalar GDR. Comparison with model predictions. JOUR IMPEE 15 1357 |
| $^{116}$Cs | 2006SM04 | NUCLEAR REACTIONS $^{58}$Ni($^{64}$Zn, np$\alpha$), E=265 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{116}$Cs deduced high-spin levels, J, $\pi$, configurations, signature inversion. Gammasphere, Microball arrays. JOUR PRVCA 74 034310 |

## A=117

| | | |
|---|---|---|
| $^{117}$Pd | 2006STZW | NUCLEAR REACTIONS $^{238}$U($\alpha$, F), E=30 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (fragment)$\gamma$-coin; deduced yields. $^{117,118,120}$Pd, $^{122,124}$Cd deduced levels, J, $\pi$. Gammasphere, Chico arrays, level systematics in neighboring isotopes discussed. PREPRINT Stoyer,12/2006 |
| $^{117}$In | 2006GUZU | NUCLEAR REACTIONS $^{120}$Sn(polarized p, $\alpha$), E=23 MeV; measured $\sigma$(E, $\theta$), Ay(E, $\gamma$). REPT MLL 2005 Annual, P14,Guazzoni |

## A=118

| | | |
|---|---|---|
| $^{118}$Pd | 2006STZW | NUCLEAR REACTIONS $^{238}$U($\alpha$, F), E=30 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (fragment)$\gamma$-coin; deduced yields. $^{117,118,120}$Pd, $^{122,124}$Cd deduced levels, J, $\pi$. Gammasphere, Chico arrays, level systematics in neighboring isotopes discussed. PREPRINT Stoyer,12/2006 |

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

| | | |
|---|---|---|
| $^{118}$Te | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |

## A=119

No references found

## A=120

| | | |
|---|---|---|
| $^{120}$Pd | 2006STZW | NUCLEAR REACTIONS $^{238}$U($\alpha$, F), E=30 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (fragment)$\gamma$-coin; deduced yields. $^{117,118,120}$Pd, $^{122,124}$Cd deduced levels, J, $\pi$. Gammasphere, Chico arrays, level systematics in neighboring isotopes discussed. PREPRINT Stoyer,12/2006 |
| $^{120}$Sn | 2006GE18 | NUCLEAR REACTIONS $^{120}$Sn($^{68}$Cu, $^{68}$Cu'), ($^{70}$Cu, $^{70}$Cu'), E=2.86 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{68,70}$Cu deduced transitions B(E2). Isomeric beams. JOUR IMPEE 15 1505 |
| $^{120}$Te | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |

## A=121

| | | |
|---|---|---|
| $^{121}$Sb | 2006JOZY | NUCLEAR REACTIONS $^{27}$Al($^{178}$Hf, X)$^{121}$Sb / $^{123}$Sb / $^{99}$Mo, E=1150 MeV; measured delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{121,123}$Sb, $^{99}$Mo deduced levels, J, $\pi$, configurations, isomeric states $T_{1/2}$. Gammasphere array. CONF San Servolo(Fusion06),Proc,P342 |
| $^{121}$Te | 2006KI15 | NUCLEAR REACTIONS Te(p, xn)$^{121}$I / $^{123}$I / $^{124}$I / $^{126}$I / $^{128}$I / $^{130}$I, E=2-18 MeV; Te(p, X)$^{121}$Te, E=13-18 MeV; measured production $\sigma$. Stacked foil activation technique. JOUR JRNCD 270 369 |
| $^{121}$I | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |
| | 2006KI15 | NUCLEAR REACTIONS Te(p, xn)$^{121}$I / $^{123}$I / $^{124}$I / $^{126}$I / $^{128}$I / $^{130}$I, E=2-18 MeV; Te(p, X)$^{121}$Te, E=13-18 MeV; measured production $\sigma$. Stacked foil activation technique. JOUR JRNCD 270 369 |

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

| | | |
|---|---|---|
| $^{121}$Xe | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |

## A=122

| | | |
|---|---|---|
| $^{122}$Cd | 2006KRZV | NUCLEAR REACTIONS Pd($^{122}$Cd, $^{122}$Cd'), ($^{124}$Cd, $^{124}$Cd'), E=2.86 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{122,124}$Cd levels deduced B(E2). Miniball array. CONF Isle of Kos (FINUSTAR),Proc,P119 |
| | 2006STZW | NUCLEAR REACTIONS $^{238}$U($\alpha$, F), E=30 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (fragment)$\gamma$-coin; deduced yields. $^{117,118,120}$Pd, $^{122,124}$Cd deduced levels, J, $\pi$. Gammasphere, Chico arrays, level systematics in neighboring isotopes discussed. PREPRINT Stoyer,12/2006 |
| $^{122}$I | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |
| $^{122}$Xe | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |

## A=123

| | | |
|---|---|---|
| $^{123}$Cd | 2005SCZQ | RADIOACTIVITY $^{123,125,127,129}$In, $^{123,125,127}$Cd(IT); measured E$\gamma$, I$\gamma$, $T_{1/2}$. $^{123,125,127,129}$In, $^{123,125,127}$Cd deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P145 |
| $^{123}$In | 2005SCZQ | RADIOACTIVITY $^{123,125,127,129}$In, $^{123,125,127}$Cd(IT); measured E$\gamma$, I$\gamma$, $T_{1/2}$. $^{123,125,127,129}$In, $^{123,125,127}$Cd deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P145 |
| $^{123}$Sb | 2006JOZY | NUCLEAR REACTIONS $^{27}$Al($^{178}$Hf, X)$^{121}$Sb / $^{123}$Sb / $^{99}$Mo, E=1150 MeV; measured delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{121,123}$Sb, $^{99}$Mo deduced levels, J, $\pi$, configurations, isomeric states $T_{1/2}$. Gammasphere array. CONF San Servolo(Fusion06),Proc,P342 |
| $^{123}$I | 2006KI15 | NUCLEAR REACTIONS Te(p, xn)$^{121}$I / $^{123}$I / $^{124}$I / $^{126}$I / $^{128}$I / $^{130}$I, E=2-18 MeV; Te(p, X)$^{121}$Te, E=13-18 MeV; measured production $\sigma$. Stacked foil activation technique. JOUR JRNCD 270 369 |

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

| | | |
|---|---|---|
| $^{123}$Xe | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |

## A=124

| | | |
|---|---|---|
| $^{124}$Cd | 2006KRZV | NUCLEAR REACTIONS Pd($^{122}$Cd, $^{122}$Cd'), ($^{124}$Cd, $^{124}$Cd'), E=2.86 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{122,124}$Cd levels deduced B(E2). Miniball array. CONF Isle of Kos (FINUSTAR),Proc,P119 |
| | 2006STZW | NUCLEAR REACTIONS $^{238}$U($\alpha$, F), E=30 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (fragment)$\gamma$-coin; deduced yields. $^{117,118,120}$Pd, $^{122,124}$Cd deduced levels, J, $\pi$. Gammasphere, Chico arrays, level systematics in neighboring isotopes discussed. PREPRINT Stoyer,12/2006 |
| $^{124}$Te | 2006VO09 | NUCLEAR REACTIONS $^{123}$Te(n, $\gamma$), E=thermal; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin; deduced $\sigma$. $^{124}$Te deduced levels, J, $\pi$, neutron binding energy. JOUR PRVCA 74 034319 |
| $^{124}$I | 2006KI15 | NUCLEAR REACTIONS Te(p, xn)$^{121}$I / $^{123}$I / $^{124}$I / $^{126}$I / $^{128}$I / $^{130}$I, E=2-18 MeV; Te(p, X)$^{121}$Te, E=13-18 MeV; measured production $\sigma$. Stacked foil activation technique. JOUR JRNCD 270 369 |
| $^{124}$Xe | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |
| $^{124}$Cs | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |

## A=125

| | | |
|---|---|---|
| $^{125}$Cd | 2005SCZQ | RADIOACTIVITY $^{123,125,127,129}$In, $^{123,125,127}$Cd(IT); measured E$\gamma$, I$\gamma$, $T_{1/2}$. $^{123,125,127,129}$In, $^{123,125,127}$Cd deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P145 |
| $^{125}$In | 2005SCZQ | RADIOACTIVITY $^{123,125,127,129}$In, $^{123,125,127}$Cd(IT); measured E$\gamma$, I$\gamma$, $T_{1/2}$. $^{123,125,127,129}$In, $^{123,125,127}$Cd deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P145 |
| $^{125}$Sn | 2006IMZZ | NUCLEAR REACTIONS $^{2}$H($^{124}$Sn, p), E=4.7 MeV / nucleon; measured Ep. REPT JAEA-Review 2006-029,P47,Imai |

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

| | | |
|---|---|---|
| $^{125}$Cs | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |

## A=126

| | | |
|---|---|---|
| $^{126}$I | 2006KI15 | NUCLEAR REACTIONS Te(p, xn)$^{121}$I / $^{123}$I / $^{124}$I / $^{126}$I / $^{128}$I / $^{130}$I, E=2-18 MeV; Te(p, X)$^{121}$Te, E=13-18 MeV; measured production $\sigma$. Stacked foil activation technique. JOUR JRNCD 270 369 |
| $^{126}$Ba | 2006HE26 | NUCLEAR REACTIONS $^{64}$Ni($^{64}$Ni, xnypz$\alpha$), E=255, 261 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (charged particle)$\gamma$-coin. $^{118,120}$Te, $^{121,122}$I, $^{121,122,123,124}$Xe, $^{124,125}$Cs, $^{126}$Ba deduced superdeformed and hyperdeformed ridge structures. Euroball IV and Diamant arrays. JOUR PHSTB T125 108 |

## A=127

| | | |
|---|---|---|
| $^{127}$Cd | 2005SCZQ | RADIOACTIVITY $^{123,125,127,129}$In, $^{123,125,127}$Cd(IT); measured E$\gamma$, I$\gamma$, $T_{1/2}$. $^{123,125,127,129}$In, $^{123,125,127}$Cd deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P145 |
| $^{127}$In | 2005SCZQ | RADIOACTIVITY $^{123,125,127,129}$In, $^{123,125,127}$Cd(IT); measured E$\gamma$, I$\gamma$, $T_{1/2}$. $^{123,125,127,129}$In, $^{123,125,127}$Cd deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P145 |

## A=128

| | | |
|---|---|---|
| $^{128}$I | 2006KI15 | NUCLEAR REACTIONS Te(p, xn)$^{121}$I / $^{123}$I / $^{124}$I / $^{126}$I / $^{128}$I / $^{130}$I, E=2-18 MeV; Te(p, X)$^{121}$Te, E=13-18 MeV; measured production $\sigma$. Stacked foil activation technique. JOUR JRNCD 270 369 |
| | 2006NO12 | NUCLEAR REACTIONS $^{127,129}$I(n, $\gamma$), (n, X), E=0.0005-100 keV; measured transmission and capture $\sigma$; deduced resonance parameters. JOUR PRVCA 74 054602 |
| $^{128}$Xe | 2006OR10 | NUCLEAR REACTIONS $^{124}$Sn($^{9}$Be, 5n), E=58 MeV; measured prompt and delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{128}$Xe deduced high-spin levels, J, $\pi$, configurations, isomer $T_{1/2}$, shape-driving effects. Caesar array. Potential energy surface calculations, configuration-constrained blocking method. JOUR PRVCA 74 034318 |
| $^{128}$Cs | 2006GR23 | NUCLEAR REACTIONS $^{122}$Sn($^{10}$B, 4n), E=55 MeV; $^{122}$Sn($^{14}$N, 4n), E=70 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, DSA. $^{128}$Cs, $^{132}$La deduced high-spin levels, J, $\pi$, $T_{1/2}$, B(M1), B(E2), chiral symmetry breaking. Osiris II array. JOUR PRLTA 97 172501 |

## A=129

| | | |
|---|---|---|
| $^{129}$In | 2005SCZQ | RADIOACTIVITY $^{123,125,127,129}$In, $^{123,125,127}$Cd(IT); measured E$\gamma$, I$\gamma$, $T_{1/2}$. $^{123,125,127,129}$In, $^{123,125,127}$Cd deduced levels, J, $\pi$. Comparison with model predictions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P145 |

## A=130

| | | |
|---|---|---|
| $^{130}$Te | 2006SIZX | NUCLEAR MOMENTS $^{130,132,134,136}$Te; measured hfs, isotope shifts; deduced charge radii. Laser spectroscopy, resonant ionization. CONF Isle of Kos (FINUSTAR),Proc,P172 |
| $^{130}$I | 2006KI15 | NUCLEAR REACTIONS Te(p, xn)$^{121}$I / $^{123}$I / $^{124}$I / $^{126}$I / $^{128}$I / $^{130}$I, E=2-18 MeV; Te(p, X)$^{121}$Te, E=13-18 MeV; measured production $\sigma$. Stacked foil activation technique. JOUR JRNCD 270 369 |
| | 2006NO12 | NUCLEAR REACTIONS $^{127,129}$I(n, $\gamma$), (n, X), E=0.0005-100 keV; measured transmission and capture $\sigma$; deduced resonance parameters. JOUR PRVCA 74 054602 |

## A=131

| | | |
|---|---|---|
| $^{131}$Ce | 2006PA37 | NUCLEAR REACTIONS $^{100}$Mo($^{36}$S, 4n), ($^{36}$S, 5n), E=160, 165 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{131,132}$Ce deduced superdeformed band transitions. Euroball IV array. JOUR PHSTB T125 115 |

## A=132

| | | |
|---|---|---|
| $^{132}$Te | 2006SIZX | NUCLEAR MOMENTS $^{130,132,134,136}$Te; measured hfs, isotope shifts; deduced charge radii. Laser spectroscopy, resonant ionization. CONF Isle of Kos (FINUSTAR),Proc,P172 |
| $^{132}$Xe | 2006KOZW | NUCLEAR REACTIONS Al($^{132}$Xe, $^{132}$Xe'), E=400 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{132}$Xe deduced transitions. REPT JAEA-Review 2006-029,P23,Koizumi |
| $^{132}$La | 2006GR23 | NUCLEAR REACTIONS $^{122}$Sn($^{10}$B, 4n), E=55 MeV; $^{122}$Sn($^{14}$N, 4n), E=70 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, DSA. $^{128}$Cs, $^{132}$La deduced high-spin levels, J, $\pi$, $T_{1/2}$, B(M1), B(E2), chiral symmetry breaking. Osiris II array. JOUR PRLTA 97 172501 |
| $^{132}$Ce | 2006PA37 | NUCLEAR REACTIONS $^{100}$Mo($^{36}$S, 4n), ($^{36}$S, 5n), E=160, 165 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{131,132}$Ce deduced superdeformed band transitions. Euroball IV array. JOUR PHSTB T125 115 |

## A=133

No references found

## A=134

| | | |
|---|---|---|
| $^{134}$Te | 2006SIZX | NUCLEAR MOMENTS $^{130,132,134,136}$Te; measured hfs, isotope shifts; deduced charge radii. Laser spectroscopy, resonant ionization. CONF Isle of Kos (FINUSTAR),Proc,P172 |
| $^{134}$Pr | 2006TO15 | NUCLEAR REACTIONS $^{119}$Sn($^{19}$F, 4n), E=83, 87 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, DSA. $^{134}$Pr deduced rotational bands $T_{1/2}$, B(E2), B(M1). Doppler-shift attenuation and recoil-distance techniques. Comparison with model predictions. JOUR IMPEE 15 1531 |

## A=135

| | | |
|---|---|---|
| $^{135}$Xe | 2005GAZP | NUCLEAR REACTIONS $^{232}$Th, $^{238}$U, $^{237}$Np, $^{243}$Am, $^{248}$Cm($\gamma$, F)$^{135}$Xe, E=25 MeV bremsstrahlung; measured isomer yield ratio. Comparison with model predictions. REPT JINR-P15-2005-210,Gangrski |
| $^{135}$Ba | 2006CH51 | NUCLEAR REACTIONS $^{130}$Te($^{9}$Be, 4n), E=45 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{135}$Ba deduced high-spin levels, J, $\pi$, configurations. JOUR ZAANE 30 347 |
| $^{135}$Nd | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E $\approx$ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |

## A=136

| | | |
|---|---|---|
| $^{136}$Te | 2006SIZX | NUCLEAR MOMENTS $^{130,132,134,136}$Te; measured hfs, isotope shifts; deduced charge radii. Laser spectroscopy, resonant ionization. CONF Isle of Kos (FINUSTAR),Proc,P172 |
| $^{136}$Pr | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E $\approx$ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |
| $^{136}$Nd | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E $\approx$ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |

## A=137

| | | |
|---|---|---|
| $^{137}$Cs | 2006SEZY | RADIOACTIVITY $^{137}$Cs($\beta^-$); measured E$\gamma$, I$\gamma$. $^{137}$Ba deduced log ft. Ge(Li) detector. CONF Sarov(Nucleus-2006),Contrib,P46,Sergeev |
| $^{137}$Ba | 2006SEZY | RADIOACTIVITY $^{137}$Cs($\beta^-$); measured E$\gamma$, I$\gamma$. $^{137}$Ba deduced log ft. Ge(Li) detector. CONF Sarov(Nucleus-2006),Contrib,P46,Sergeev |
| $^{137}$Pr | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E $\approx$ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |

**A=137 *(continued)***

| | | |
|---|---|---|
| $^{137}$Nd | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E ≈ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |

## A=138

| | | |
|---|---|---|
| $^{138}$Xe | 2006LEZQ | NUCLEAR REACTIONS $^{50}$Ti($^{138}$Xe, $^{138}$Xe'), E=2.8 MeV / nucleon; measured E$\gamma$, I$\gamma$($\theta$, H, t), $\gamma\gamma$-, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{138}$Xe deduced transition. Miniball array. REPT MLL 2005 Annual, P15,Leske |
| $^{138}$Ba | 2006FO13 | NUCLEAR REACTIONS $^{208}$Pb($^{18}$O, F)$^{83}$Se / $^{138}$Ba / $^{139}$Ba / $^{140}$Ba, E=91 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{83}$Se deduced high-spin levels, J, $\pi$, configurations. Gammasphere array. JOUR PRVCA 74 034308 |
| | 2006VO11 | NUCLEAR REACTIONS $^{138}$Ba($\gamma$, $\gamma$'), E=9.2 MeV bremsstrahlung; $^{140}$Ce, $^{142}$Nd, $^{144}$Sm($\gamma$, $\gamma$'), E=7.6, 9.9 MeV bremsstrahlung; measured E$\gamma$, I$\gamma$. $^{138}$Ba, $^{140}$Ce, $^{142}$Nd, $^{144}$Sm deduced dipole transition energies, B(E1). Comparison with quasiparticle-phonon model predictions. JOUR NUPAB 779 1 |
| $^{138}$Pr | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E ≈ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |
| $^{138}$Nd | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E ≈ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |

## A=139

| | | |
|---|---|---|
| $^{139}$Ba | 2006FO13 | NUCLEAR REACTIONS $^{208}$Pb($^{18}$O, F)$^{83}$Se / $^{138}$Ba / $^{139}$Ba / $^{140}$Ba, E=91 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{83}$Se deduced high-spin levels, J, $\pi$, configurations. Gammasphere array. JOUR PRVCA 74 034308 |
| $^{139}$La | 2006BE55 | RADIOACTIVITY $^{139}$La; measured $T_{1/2}$ lower limit for charge non-conserving decay. $LaCl_3$(Ce) scintillator. JOUR UKPJA 51 1037 |
| $^{139}$Nd | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E ≈ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |

## A=140

| | | |
|---|---|---|
| $^{140}$Ba | 2006FO13 | NUCLEAR REACTIONS $^{208}$Pb($^{18}$O, F)$^{83}$Se / $^{138}$Ba / $^{139}$Ba / $^{140}$Ba, E=91 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{83}$Se deduced high-spin levels, J, $\pi$, configurations. Gammasphere array. JOUR PRVCA 74 034308 |

**A=140 *(continued)***

| | | |
|---|---|---|
| $^{140}$La | 2006TEZX | NUCLEAR REACTIONS $^{139}$La(n, $\gamma$), E $\approx$ 0-1 MeV; measured capture $\sigma$; deduced resonance and level density parameters. CONF Isle of Kos (FINUSTAR),Proc,P551 |
| | 2006TEZY | NUCLEAR REACTIONS $^{139}$La(n, $\gamma$), E=0.6-9000 eV; measured capture $\sigma$; deduced resonance parameters, level densities, Maxwellian averaged $\sigma$. Astrophysical implications discussed. PREPRINT nucl-ex/0610034,10/24/2006 |
| $^{140}$Ce | 2006SA37 | NUCLEAR REACTIONS $^{140}$Ce($\alpha$, $\alpha$'), E=136 MeV; measured E$\alpha$, E$\gamma$, $\alpha\gamma$-coin, $\sigma(\theta)$. $^{140}$Ce deduced electric dipole strength distribution, pygmy resonance features. JOUR PRLTA 97 172502 |
| | 2006VO11 | NUCLEAR REACTIONS $^{138}$Ba($\gamma$, $\gamma$'), E=9.2 MeV bremsstrahlung; $^{140}$Ce, $^{142}$Nd, $^{144}$Sm($\gamma$, $\gamma$'), E=7.6, 9.9 MeV bremsstrahlung; measured E$\gamma$, I$\gamma$. $^{138}$Ba, $^{140}$Ce, $^{142}$Nd, $^{144}$Sm deduced dipole transition energies, B(E1). Comparison with quasiparticle-phonon model predictions. JOUR NUPAB 779 1 |
| $^{140}$Nd | 2006PE25 | NUCLEAR REACTIONS $^{126}$Te($^{18}$O, 4n), E=70 MeV; measured prompt and delayed E$\gamma$, I$\gamma$, $\gamma\gamma$-coin; deduced $\sigma$. $^{140}$Nd deduced high-spin levels, J, $\pi$, configurations, six-quasiparticle isomer. Afrodite array. JOUR PRVCA 74 034304 |
| | 2006PE31 | NUCLEAR REACTIONS $^{96}$Zr($^{48}$Ca, 4n), E=195 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{140}$Nd deduced high-spin levels, J, triaxial deformation. Euroball array. JOUR PHSTB T125 212 |

## A=141

| | | |
|---|---|---|
| $^{141}$Nd | 2006ST20 | NUCLEAR REACTIONS Pr(p, X)$^{135}$Nd / $^{136}$Nd / $^{137}$Nd / $^{138}$Nd / $^{139}$Nd / $^{139m}$Nd / $^{141}$Nd / $^{136}$Pr / $^{137}$Pr / $^{138m}$Pr, E $\approx$ 7-97 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 149 |

## A=142

| | | |
|---|---|---|
| $^{142}$Nd | 2006VO11 | NUCLEAR REACTIONS $^{138}$Ba($\gamma$, $\gamma$'), E=9.2 MeV bremsstrahlung; $^{140}$Ce, $^{142}$Nd, $^{144}$Sm($\gamma$, $\gamma$'), E=7.6, 9.9 MeV bremsstrahlung; measured E$\gamma$, I$\gamma$. $^{138}$Ba, $^{140}$Ce, $^{142}$Nd, $^{144}$Sm deduced dipole transition energies, B(E1). Comparison with quasiparticle-phonon model predictions. JOUR NUPAB 779 1 |
| $^{142}$Gd | 2006LI60 | NUCLEAR REACTIONS $^{114}$Sn($^{32}$S, 2n2p), E=160 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, DSA. $^{142}$Gd deduced high-spin levels, J, $\pi$, B(E2). Euroball array. JOUR PHSTB T125 204 |

## A=143

No references found

## A=144

| | | |
|---|---|---|
| $^{144}$Sm | 2006VO11 | NUCLEAR REACTIONS $^{138}$Ba($\gamma$, $\gamma$'), E=9.2 MeV bremsstrahlung; $^{140}$Ce, $^{142}$Nd, $^{144}$Sm($\gamma$, $\gamma$'), E=7.6, 9.9 MeV bremsstrahlung; measured E$\gamma$, I$\gamma$. $^{138}$Ba, $^{140}$Ce, $^{142}$Nd, $^{144}$Sm deduced dipole transition energies, B(E1). Comparison with quasiparticle-phonon model predictions. JOUR NUPAB 779 1 |

## A=145

No references found

## A=146

| | | |
|---|---|---|
| $^{146}$Gd | 2006CAZX | NUCLEAR REACTIONS $^{144}$Sm($\alpha$, 2n), E=26.3 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray polarization. $^{146}$Gd deduced levels, J, $\pi$, two-phonon octupole state. CONF Isle of Kos (FINUSTAR),Proc,P213 |

## A=147

No references found

## A=148

No references found

## A=149

| | | |
|---|---|---|
| $^{149}$Eu | 2006RI11 | RADIOACTIVITY $^{149}$Gd(EC), ($\beta^+$) [from $^{148}$Gd(n, $\gamma$)]; measured E$\gamma$, I$\gamma$. $^{149}$Eu deduced levels, J, $\pi$. Comparison with previous results. JOUR PRVCA 74 044302 |
| $^{149}$Gd | 2006RI11 | NUCLEAR REACTIONS $^{148}$Gd(n, $\gamma$), E=thermal; measured capture $\sigma$, resonance integral. JOUR PRVCA 74 044302 |
| | 2006RI11 | RADIOACTIVITY $^{149}$Gd(EC), ($\beta^+$) [from $^{148}$Gd(n, $\gamma$)]; measured E$\gamma$, I$\gamma$. $^{149}$Eu deduced levels, J, $\pi$. Comparison with previous results. JOUR PRVCA 74 044302 |

## A=150

No references found

## A=151

No references found

## A=152

| | | |
|---|---|---|
| $^{152}$Gd | 2006ME25 | NUCLEAR REACTIONS $^{154,156}$Gd, $^{164}$Dy, $^{170}$Er, $^{178}$Hf, $^{182,186}$W, $^{192}$Os(p, t), E=25 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{152,154}$Gd, $^{162}$Dy, $^{168}$Er, $^{176}$Hf, $^{180,184}$W, $^{190}$Os deduced $0^+$ level energy distributions. JOUR PRVCA 74 044309 |

## A=153

No references found

## A=154

| | | |
|---|---|---|
| $^{154}$Gd | 2006ME25 | NUCLEAR REACTIONS $^{154,156}$Gd, $^{164}$Dy, $^{170}$Er, $^{178}$Hf, $^{182,186}$W, $^{192}$Os(p, t), E=25 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{152,154}$Gd, $^{162}$Dy, $^{168}$Er, $^{176}$Hf, $^{180,184}$W, $^{190}$Os deduced $0^+$ level energy distributions. JOUR PRVCA 74 044309 |

## A=155

No references found

## A=156

| | | |
|---|---|---|
| $^{156}$Gd | 2006LE35 | NUCLEAR REACTIONS $^{155,157}$Gd(n, X), (n, $\gamma$), E $\approx$ 0-300 eV; measured transmission and capture $\sigma$; deduced resonance parameters. Comparison with previous results. JOUR NSENA 154 261 |
| $^{156}$Er | 2006RI13 | NUCLEAR REACTIONS $^{114}$Cd($^{48}$Ca, 4n), ($^{48}$Ca, 5n), ($^{48}$Ca, 6n), E=215 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{156,157,158}$Er deduced high-spin levels, states above band termination. Gammasphere array. JOUR PHSTB T125 123 |

## A=157

| | | |
|---|---|---|
| $^{157}$Er | 2006RI13 | NUCLEAR REACTIONS $^{114}$Cd($^{48}$Ca, 4n), ($^{48}$Ca, 5n), ($^{48}$Ca, 6n), E=215 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{156,157,158}$Er deduced high-spin levels, states above band termination. Gammasphere array. JOUR PHSTB T125 123 |

## A=158

| | | |
|---|---|---|
| $^{158}$Pm | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |

### A=158 *(continued)*

| | | |
|---|---|---|
| $^{158}$Sm | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{158}$Gd | 2006LE35 | NUCLEAR REACTIONS $^{155,157}$Gd(n, X), (n, $\gamma$), E $\approx$ 0-300 eV; measured transmission and capture $\sigma$; deduced resonance parameters. Comparison with previous results. JOUR NSENA 154 261 |
| $^{158}$Ho | 2006VAZY | RADIOACTIVITY $^{158}$Er(EC); measured E$\gamma$, I$\gamma$, E(ce), $\gamma\gamma$-coin. $^{158}$Ho deduced levels, J, $\pi$, $T_{1/2}$, Q(EC), log ft. YASNAPP facility. CONF Sarov(Nucleus-2006),Contrib,P83,Vaganov |
| $^{158}$Er | 2006RI13 | NUCLEAR REACTIONS $^{114}$Cd($^{48}$Ca, 4n), ($^{48}$Ca, 5n), ($^{48}$Ca, 6n), E=215 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{156,157,158}$Er deduced high-spin levels, states above band termination. Gammasphere array. JOUR PHSTB T125 123 |
| | 2006VAZY | RADIOACTIVITY $^{158}$Er(EC); measured E$\gamma$, I$\gamma$, E(ce), $\gamma\gamma$-coin. $^{158}$Ho deduced levels, J, $\pi$, $T_{1/2}$, Q(EC), log ft. YASNAPP facility. CONF Sarov(Nucleus-2006),Contrib,P83,Vaganov |
| $^{158}$W | 2006JO10 | RADIOACTIVITY $^{159}$Re(p) [from $^{106}$Cd($^{58}$Ni, 4np)]; measured Ep, $T_{1/2}$; deduced ground-state configuration. JOUR PYLBB 641 34 |

## A=159

| | | |
|---|---|---|
| $^{159}$Pm | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{159}$Sm | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{159}$Eu | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{159}$Re | 2006JO10 | NUCLEAR REACTIONS $^{106}$Cd($^{58}$Ni, 4np), E=300 MeV; measured E$\alpha$, I$\alpha$, Ep, Ip, (recoil)$\alpha$-coin following residual nucleus decay. Recoil-decay correlation technique. JOUR PYLBB 641 34 |
| | 2006JO10 | RADIOACTIVITY $^{159}$Re(p) [from $^{106}$Cd($^{58}$Ni, 4np)]; measured Ep, $T_{1/2}$; deduced ground-state configuration. JOUR PYLBB 641 34 |

## A=160

| | | |
|---|---|---|
| $^{160}$Eu | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |

**A=160 *(continued)***

| | | |
|---|---|---|
| $^{160}$Gd | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{160}$Dy | 2006BOZW | RADIOACTIVITY $^{160}$Ho(EC) [from $^{160}$Er(EC)]; measured E(ce), I(ce). $^{160}$Dy deduced E0 transitions. Magnetic spectrograph, photoplate. CONF Sarov(Nucleus-2006),Contrib,P50,Bogachenko |
| $^{160}$Ho | 2006BOZW | RADIOACTIVITY $^{160}$Ho(EC) [from $^{160}$Er(EC)]; measured E(ce), I(ce). $^{160}$Dy deduced E0 transitions. Magnetic spectrograph, photoplate. CONF Sarov(Nucleus-2006),Contrib,P50,Bogachenko |
| | 2006KAZX | RADIOACTIVITY $^{160}$Er(EC); measured E$\gamma$, I$\gamma$. $^{160}$Ho deduced levels, J, $\pi$, branching ratio, isomer $T_{1/2}$. Mass-separator, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P82,Kalinnikov |
| $^{160}$Er | 2006KAZX | RADIOACTIVITY $^{160}$Er(EC); measured E$\gamma$, I$\gamma$. $^{160}$Ho deduced levels, J, $\pi$, branching ratio, isomer $T_{1/2}$. Mass-separator, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P82,Kalinnikov |

## A=161

| | | |
|---|---|---|
| $^{161}$Sm | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{161}$Eu | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{161}$Gd | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |

## A=162

| | | |
|---|---|---|
| $^{162}$Eu | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{162}$Gd | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{162}$Dy | 2006ME25 | NUCLEAR REACTIONS $^{154,156}$Gd, $^{164}$Dy, $^{170}$Er, $^{178}$Hf, $^{182,186}$W, $^{192}$Os(p, t), E=25 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{152,154}$Gd, $^{162}$Dy, $^{168}$Er, $^{176}$Hf, $^{180,184}$W, $^{190}$Os deduced $0^+$ level energy distributions. JOUR PRVCA 74 044309 |

## A=163

| | | |
|---|---|---|
| $^{163}$Eu | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| | 2006SAZS | RADIOACTIVITY $^{163,164,165}$Eu($\beta^-$) [from U(p, F)]; measured E$\gamma$, I$\gamma$, X-ray spectra, $\beta\gamma$-coin, $T_{1/2}$. REPT JAEA-Review 2006-029,P31,Sato |
| $^{163}$Gd | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| | 2006SAZS | RADIOACTIVITY $^{163,164,165}$Eu($\beta^-$) [from U(p, F)]; measured E$\gamma$, I$\gamma$, X-ray spectra, $\beta\gamma$-coin, $T_{1/2}$. REPT JAEA-Review 2006-029,P31,Sato |
| $^{163}$Tb | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{163}$Tm | 2006PAZV | NUCLEAR REACTIONS $^{130}$Te($^{37}$Cl, 4n), E=170 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{163}$Tm deduced high-spin levels, J, $\pi$, configurations, B(M1) / B(E2). Gammasphere array, tilted-axis cranking calculations. PREPRINT nucl-ex/0611036,11/21/2006 |

## A=164

| | | |
|---|---|---|
| $^{164}$Eu | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| | 2006SAZS | RADIOACTIVITY $^{163,164,165}$Eu($\beta^-$) [from U(p, F)]; measured E$\gamma$, I$\gamma$, X-ray spectra, $\beta\gamma$-coin, $T_{1/2}$. REPT JAEA-Review 2006-029,P31,Sato |
| $^{164}$Gd | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| | 2006SAZS | RADIOACTIVITY $^{163,164,165}$Eu($\beta^-$) [from U(p, F)]; measured E$\gamma$, I$\gamma$, X-ray spectra, $\beta\gamma$-coin, $T_{1/2}$. REPT JAEA-Review 2006-029,P31,Sato |

## A=165

| | | |
|---|---|---|
| $^{165}$Eu | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| | 2006SAZS | RADIOACTIVITY $^{163,164,165}$Eu($\beta^-$) [from U(p, F)]; measured E$\gamma$, I$\gamma$, X-ray spectra, $\beta\gamma$-coin, $T_{1/2}$. REPT JAEA-Review 2006-029,P31,Sato |

**A=165 *(continued)***

| | | |
|---|---|---|
| $^{165}$Gd | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| | 2006SAZS | RADIOACTIVITY $^{163,164,165}$Eu($\beta^-$) [from U(p, F)]; measured E$\gamma$, I$\gamma$, X-ray spectra, $\beta\gamma$-coin, $T_{1/2}$. REPT JAEA-Review 2006-029,P31,Sato |

## A=166

| | | |
|---|---|---|
| $^{166}$Tb | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{166}$Dy | 2006HAZT | RADIOACTIVITY $^{158,159}$Pm, $^{159,161}$Sm, $^{160,161,162,163,164,165}$Eu, $^{163}$Gd, $^{166}$Tb($\beta^-$) [from U(p, F)]; measured Q$\beta$; deduced two-neutron separation energies. BGO total absorption detector. REPT JAEA-Review 2006-029,P33,Hayashi |
| $^{166}$Yb | 2006LE41 | NUCLEAR REACTIONS $^{124}$Sn($^{48}$Ca, 4n), ($^{48}$Ca, 5n), ($^{48}$Ca, 6n), E=215 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{168,169,170}$Yb deduced rotational damping widths, spreading widths, correlation probabilities, ordered and chaotic behavior. Gammasphere array. JOUR PHSTB T125 142 |

## A=167

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|---|---|---|
| $^{167}$Yb | 2006LE41 | NUCLEAR REACTIONS $^{124}$Sn($^{48}$Ca, 4n), ($^{48}$Ca, 5n), ($^{48}$Ca, 6n), E=215 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{168,169,170}$Yb deduced rotational damping widths, spreading widths, correlation probabilities, ordered and chaotic behavior. Gammasphere array. JOUR PHSTB T125 142 |

## A=168

| | | |
|---|---|---|
| $^{168}$Er | 2006ME25 | NUCLEAR REACTIONS $^{154,156}$Gd, $^{164}$Dy, $^{170}$Er, $^{178}$Hf, $^{182,186}$W, $^{192}$Os(p, t), E=25 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{152,154}$Gd, $^{162}$Dy, $^{168}$Er, $^{176}$Hf, $^{180,184}$W, $^{190}$Os deduced $0^+$ level energy distributions. JOUR PRVCA 74 044309 |
| $^{168}$Yb | 2006LE41 | NUCLEAR REACTIONS $^{124}$Sn($^{48}$Ca, 4n), ($^{48}$Ca, 5n), ($^{48}$Ca, 6n), E=215 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{168,169,170}$Yb deduced rotational damping widths, spreading widths, correlation probabilities, ordered and chaotic behavior. Gammasphere array. JOUR PHSTB T125 142 |

## A=169

| | | |
|---|---|---|
| $^{169}$Yb | 2006LE41 | NUCLEAR REACTIONS $^{124}$Sn($^{48}$Ca, 4n), ($^{48}$Ca, 5n), ($^{48}$Ca, 6n), E=215 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{168,169,170}$Yb deduced rotational damping widths, spreading widths, correlation probabilities, ordered and chaotic behavior. Gammasphere array. JOUR PHSTB T125 142 |
| $^{169}$Ta | 2006HA46 | NUCLEAR REACTIONS $^{124}$Sn($^{51}$V, 6n), E=228 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{169}$Ta deduced high-spin levels, J, $\pi$, configurations. Gammasphere array. JOUR PRVCA 74 054314 |

## A=170

| | | |
|---|---|---|
| $^{170}$Yb | 2006LE41 | NUCLEAR REACTIONS $^{124}$Sn($^{48}$Ca, 4n), ($^{48}$Ca, 5n), ($^{48}$Ca, 6n), E=215 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{168,169,170}$Yb deduced rotational damping widths, spreading widths, correlation probabilities, ordered and chaotic behavior. Gammasphere array. JOUR PHSTB T125 142 |

## A=171

No references found

## A=172

No references found

## A=173

| | | |
|---|---|---|
| $^{173}$Ta | 2006TH07 | NUCLEAR REACTIONS $^{165}$Ho($^{12}$C, 4n), E=66 MeV; measured delayed E$\gamma$, I$\gamma$($\theta$, H, t). $^{173}$Ta deduced isomeric states g factors, configurations. Time-dependent perturbed angular distribution technique. JOUR PRVCA 74 034329 |

## A=174

| | | |
|---|---|---|
| $^{174}$Yb | 2006KAZW | RADIOACTIVITY $^{178m}$Hf($\alpha$); measured I$\alpha$; deduced $T_{1/2}$ lower limit. Si and track detector. CONF Sarov(Nucleus-2006),Contrib,P178,Karamian |

## A=175

No references found

## A=176

| | | |
|---|---|---|
| $^{176}$Hf | 2006ME25 | NUCLEAR REACTIONS $^{154,156}$Gd, $^{164}$Dy, $^{170}$Er, $^{178}$Hf, $^{182,186}$W, $^{192}$Os(p, t), E=25 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{152,154}$Gd, $^{162}$Dy, $^{168}$Er, $^{176}$Hf, $^{180,184}$W, $^{190}$Os deduced $0^+$ level energy distributions. JOUR PRVCA 74 044309 |

## A=177

| | | |
|---|---|---|
| $^{177}$Ta | 2006BU19 | NUCLEAR REACTIONS $^{176,178,180}$Hf($^3$He, d), E=32 MeV; measured $\sigma$(E, $\theta$). $^{177}$Hf($^3$He, d), E = 32 MeV; $^{176,177,178,180}$Hf($\alpha$, t), E=30 MeV; measured $\sigma$(E). $^{177,178,179,181}$Ta deduced levels, $\ell$-values, spectroscopic strengths, Nilsson band assignments. $^{178}$Ta deduced proton separation energy. Enriched targets, magnetic spectrograph. JOUR NUPAB 778 125 |
| | 2006TA26 | NUCLEAR REACTIONS W(p, X)$^{181}$Re / $^{182}$Re / $^{182m}$Re / $^{183}$Re / $^{184}$Re / $^{186}$Re / $^{177}$Ta / $^{183}$Ta, E $\approx$ 5-35 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 160 |

## A=178

| | | |
|---|---|---|
| $^{178}$Hf | 2006KAZV | NUCLEAR REACTIONS $^{177,178m}$Hf(n, $\gamma$), E=thermal; measured isomer production $\sigma$. Pulsed reactor, Ge spectrometers, Cd and $B_4C$ filters. CONF Sarov(Nucleus-2006),Contrib,P179,Karamian |
| | 2006KAZW | RADIOACTIVITY $^{178m}$Hf($\alpha$); measured I$\alpha$; deduced $T_{1/2}$ lower limit. Si and track detector. CONF Sarov(Nucleus-2006),Contrib,P178,Karamian |
| | 2006LAZX | RADIOACTIVITY $^{178}$Ta(EC) [from $^{179}$Hf(p, 2n) E=20 MeV, $^{180}$Hf(d, 4n) E=30 MeV, $^{nat}$Lu($\alpha$, n)]; measured E(ce), I(ce). $^{178}$Hf deduced level energy. Isochronous cyclotron, cyclotron, magnetic spectrometer. CONF Sarov(Nucleus-2006),Contrib,P98,Lashko |
| $^{178}$Ta | 2006BU19 | NUCLEAR REACTIONS $^{176,178,180}$Hf($^3$He, d), E=32 MeV; measured $\sigma$(E, $\theta$). $^{177}$Hf($^3$He, d), E = 32 MeV; $^{176,177,178,180}$Hf($\alpha$, t), E=30 MeV; measured $\sigma$(E). $^{177,178,179,181}$Ta deduced levels, $\ell$-values, spectroscopic strengths, Nilsson band assignments. $^{178}$Ta deduced proton separation energy. Enriched targets, magnetic spectrograph. JOUR NUPAB 778 125 |
| | 2006LAZX | RADIOACTIVITY $^{178}$Ta(EC) [from $^{179}$Hf(p, 2n) E=20 MeV, $^{180}$Hf(d, 4n) E=30 MeV, $^{nat}$Lu($\alpha$, n)]; measured E(ce), I(ce). $^{178}$Hf deduced level energy. Isochronous cyclotron, cyclotron, magnetic spectrometer. CONF Sarov(Nucleus-2006),Contrib,P98,Lashko |

## A=179

| | | |
|---|---|---|
| $^{179}$Hf | 2006KAZV | NUCLEAR REACTIONS $^{177,178m}$Hf(n, $\gamma$), E=thermal; measured isomer production $\sigma$. Pulsed reactor, Ge spectrometers, Cd and $B_4C$ filters. CONF Sarov(Nucleus-2006),Contrib,P179,Karamian |

**A=179 *(continued)***

| | | |
|---|---|---|
| $^{179}$Ta | 2006BU19 | NUCLEAR REACTIONS $^{176,178,180}$Hf($^{3}$He, d), E=32 MeV; measured $\sigma$(E, $\theta$). $^{177}$Hf($^{3}$He, d), E = 32 MeV; $^{176,177,178,180}$Hf($\alpha$, t), E=30 MeV; measured $\sigma$(E). $^{177,178,179,181}$Ta deduced levels, $\ell$-values, spectroscopic strengths, Nilsson band assignments. $^{178}$Ta deduced proton separation energy. Enriched targets, magnetic spectrograph. JOUR NUPAB 778 125 |

## A=180

| | | |
|---|---|---|
| $^{180}$Hf | 2006HU15 | RADIOACTIVITY $^{180m}$Ta($\beta^-$), (EC); measured lower limits for $T_{1/2}$, log ft. JOUR PRVCA 74 054311 |
| | 2006VO12 | RADIOACTIVITY $^{183}$Hf($\beta^-$) [from $^{182}$Hf(n, $\gamma$)]; $^{56}$Mn, $^{116m}$In, $^{180m}$Hf; measured E$\gamma$, I$\gamma$, $T_{1/2}$. Comparisons with previous results. JOUR PRVCA 74 057303 |
| $^{180}$Ta | 2006BI14 | NUCLEAR MOMENTS $^{180,181}$Ta; measured hfs; deduced hyperfine structure coefficients. $^{180m}$Ta deduced isomeric state J. Collinear laser spectroscopy. JOUR PRVCA 74 047301 |
| | 2006HU15 | RADIOACTIVITY $^{180m}$Ta($\beta^-$), (EC); measured lower limits for $T_{1/2}$, log ft. JOUR PRVCA 74 054311 |
| $^{180}$W | 2006HU15 | RADIOACTIVITY $^{180m}$Ta($\beta^-$), (EC); measured lower limits for $T_{1/2}$, log ft. JOUR PRVCA 74 054311 |
| | 2006ME25 | NUCLEAR REACTIONS $^{154,156}$Gd, $^{164}$Dy, $^{170}$Er, $^{178}$Hf, $^{182,186}$W, $^{192}$Os(p, t), E=25 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{152,154}$Gd, $^{162}$Dy, $^{168}$Er, $^{176}$Hf, $^{180,184}$W, $^{190}$Os deduced $0^+$ level energy distributions. JOUR PRVCA 74 044309 |

## A=181

| | | |
|---|---|---|
| $^{181}$Ta | 2006BI14 | NUCLEAR MOMENTS $^{180,181}$Ta; measured hfs; deduced hyperfine structure coefficients. $^{180m}$Ta deduced isomeric state J. Collinear laser spectroscopy. JOUR PRVCA 74 047301 |
| | 2006BU19 | NUCLEAR REACTIONS $^{176,178,180}$Hf($^{3}$He, d), E=32 MeV; measured $\sigma$(E, $\theta$). $^{177}$Hf($^{3}$He, d), E = 32 MeV; $^{176,177,178,180}$Hf($\alpha$, t), E=30 MeV; measured $\sigma$(E). $^{177,178,179,181}$Ta deduced levels, $\ell$-values, spectroscopic strengths, Nilsson band assignments. $^{178}$Ta deduced proton separation energy. Enriched targets, magnetic spectrograph. JOUR NUPAB 778 125 |
| $^{181}$Re | 2006TA26 | NUCLEAR REACTIONS W(p, X)$^{181}$Re / $^{182}$Re / $^{182m}$Re / $^{183}$Re / $^{184}$Re / $^{186}$Re / $^{177}$Ta / $^{183}$Ta, E $\approx$ 5-35 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 160 |

## A=182

| | | |
|---|---|---|
| $^{182}$Re | 2006TA26 | NUCLEAR REACTIONS W(p, X)$^{181}$Re / $^{182}$Re / $^{182m}$Re / $^{183}$Re / $^{184}$Re / $^{186}$Re / $^{177}$Ta / $^{183}$Ta, E $\approx$ 5-35 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 160 |

**A=182 *(continued)***

| | | |
|---|---|---|
| $^{182}$Au | 2006ZH38 | NUCLEAR REACTIONS $^{152}$Sm($^{35}$Cl, 5n), E=183 MeV; $^{172}$Yb($^{19}$F, 5n), E=104 MeV; $^{159}$Tb($^{29}$Si, 4n), E=140 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{182,184,186}$Au deduced high-spin levels, J, $\pi$, configurations, signature inversion. JOUR IMPEE 15 1437 |
| | 2006ZHZZ | NUCLEAR REACTIONS $^{152}$Sm($^{35}$Cl, 5n), $^{171}$Yb($^{19}$F, 4n), $^{159}$Tb($^{29}$Si, 4n), E not given; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{182,184,186}$Au deduced high-spin levels, J, $\pi$, configurations, signature inversion. REPT JAEA-Review 2006-029,P27,Zhang |

## A=183

| | | |
|---|---|---|
| $^{183}$Hf | 2006VO12 | RADIOACTIVITY $^{183}$Hf($\beta^-$) [from $^{182}$Hf(n, $\gamma$)]; $^{56}$Mn, $^{116m}$In, $^{180m}$Hf; measured E$\gamma$, I$\gamma$, $T_{1/2}$. Comparisons with previous results. JOUR PRVCA 74 057303 |
| $^{183}$Ta | 2006TA26 | NUCLEAR REACTIONS W(p, X)$^{181}$Re / $^{182}$Re / $^{182m}$Re / $^{183}$Re / $^{184}$Re / $^{186}$Re / $^{177}$Ta / $^{183}$Ta, E $\approx$ 5-35 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 160 |
| | 2006VO12 | RADIOACTIVITY $^{183}$Hf($\beta^-$) [from $^{182}$Hf(n, $\gamma$)]; $^{56}$Mn, $^{116m}$In, $^{180m}$Hf; measured E$\gamma$, I$\gamma$, $T_{1/2}$. Comparisons with previous results. JOUR PRVCA 74 057303 |
| $^{183}$Re | 2006TA26 | NUCLEAR REACTIONS W(p, X)$^{181}$Re / $^{182}$Re / $^{182m}$Re / $^{183}$Re / $^{184}$Re / $^{186}$Re / $^{177}$Ta / $^{183}$Ta, E $\approx$ 5-35 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 160 |

## A=184

| | | |
|---|---|---|
| $^{184}$W | 2006ME25 | NUCLEAR REACTIONS $^{154,156}$Gd, $^{164}$Dy, $^{170}$Er, $^{178}$Hf, $^{182,186}$W, $^{192}$Os(p, t), E=25 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{152,154}$Gd, $^{162}$Dy, $^{168}$Er, $^{176}$Hf, $^{180,184}$W, $^{190}$Os deduced $0^+$ level energy distributions. JOUR PRVCA 74 044309 |
| $^{184}$Re | 2006TA26 | NUCLEAR REACTIONS W(p, X)$^{181}$Re / $^{182}$Re / $^{182m}$Re / $^{183}$Re / $^{184}$Re / $^{186}$Re / $^{177}$Ta / $^{183}$Ta, E $\approx$ 5-35 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 160 |
| $^{184}$Au | 2006ZH38 | NUCLEAR REACTIONS $^{152}$Sm($^{35}$Cl, 5n), E=183 MeV; $^{172}$Yb($^{19}$F, 5n), E=104 MeV; $^{159}$Tb($^{29}$Si, 4n), E=140 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{182,184,186}$Au deduced high-spin levels, J, $\pi$, configurations, signature inversion. JOUR IMPEE 15 1437 |
| | 2006ZHZZ | NUCLEAR REACTIONS $^{152}$Sm($^{35}$Cl, 5n), $^{171}$Yb($^{19}$F, 4n), $^{159}$Tb($^{29}$Si, 4n), E not given; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{182,184,186}$Au deduced high-spin levels, J, $\pi$, configurations, signature inversion. REPT JAEA-Review 2006-029,P27,Zhang |

## A=185

No references found

## A=186

| | | |
|---|---|---|
| $^{186}$W | 2006SHZW | NUCLEAR REACTIONS $^{186}$W($^{18}$O, $^{16}$O), ($^{18}$O, n$^{16}$O), ($^{18}$O, 2n$^{16}$O), E=180 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{186,187,188}$W deduced transitions. REPT JAEA-Review 2006-029,P36,Shizuma |
| $^{186}$Re | 2006TA26 | NUCLEAR REACTIONS W(p, X)$^{181}$Re / $^{182}$Re / $^{182m}$Re / $^{183}$Re / $^{184}$Re / $^{186}$Re / $^{177}$Ta / $^{183}$Ta, E $\approx$ 5-35 MeV; measured production $\sigma$. Stacked-foil activation technique. JOUR NIMBE 252 160 |
| $^{186}$Au | 2006ZH38 | NUCLEAR REACTIONS $^{152}$Sm($^{35}$Cl, 5n), E=183 MeV; $^{172}$Yb($^{19}$F, 5n), E=104 MeV; $^{159}$Tb($^{29}$Si, 4n), E=140 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{182,184,186}$Au deduced high-spin levels, J, $\pi$, configurations, signature inversion. JOUR IMPEE 15 1437 |
| | 2006ZHZZ | NUCLEAR REACTIONS $^{152}$Sm($^{35}$Cl, 5n), $^{171}$Yb($^{19}$F, 4n), $^{159}$Tb($^{29}$Si, 4n), E not given; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{182,184,186}$Au deduced high-spin levels, J, $\pi$, configurations, signature inversion. REPT JAEA-Review 2006-029,P27,Zhang |
| $^{186}$Pb | 2006PAZW | NUCLEAR REACTIONS $^{106}$Pd($^{83}$Kr, 3n), E not given; measured E$\gamma$, I$\gamma$, (recoil)$\gamma$-coin; deduced production $\sigma$. $^{186}$Pb deduced levels, J, $\pi$, B(E2). Jurogam array, recoil-decay tagging. CONF Isle of Kos (FINUSTAR),Proc,P529 |

## A=187

| | | |
|---|---|---|
| $^{187}$W | 2006SHZW | NUCLEAR REACTIONS $^{186}$W($^{18}$O, $^{16}$O), ($^{18}$O, n$^{16}$O), ($^{18}$O, 2n$^{16}$O), E=180 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{186,187,188}$W deduced transitions. REPT JAEA-Review 2006-029,P36,Shizuma |

## A=188

| | | |
|---|---|---|
| $^{188}$W | 2006SH23 | NUCLEAR REACTIONS $^{186}$W($^{18}$O, $^{16}$O), E=180 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{188}$W deduced levels, J, $\pi$, configurations. Level systematics in neighboring isotopes discussed. JOUR ZAANE 30 391 |
| | 2006SHZW | NUCLEAR REACTIONS $^{186}$W($^{18}$O, $^{16}$O), ($^{18}$O, n$^{16}$O), ($^{18}$O, 2n$^{16}$O), E=180 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{186,187,188}$W deduced transitions. REPT JAEA-Review 2006-029,P36,Shizuma |

## A=189

No references found

## A=190

| | | |
|---|---|---|
| $^{190}$Os | 2006ME25 | NUCLEAR REACTIONS $^{154,156}$Gd, $^{164}$Dy, $^{170}$Er, $^{178}$Hf, $^{182,186}$W, $^{192}$Os(p, t), E=25 MeV; measured triton spectra, $\sigma$(E, $\theta$). $^{152,154}$Gd, $^{162}$Dy, $^{168}$Er, $^{176}$Hf, $^{180,184}$W, $^{190}$Os deduced $0^+$ level energy distributions. JOUR PRVCA 74 044309 |

**A=190 *(continued)***

| | | |
|---|---|---|
| | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |

## A=191

| | | |
|---|---|---|
| $^{191}$Ir | 2006LAZY | RADIOACTIVITY $^{191}$Pt(EC) [from $^{190}$Pt(n, $\gamma$) E=th]; measured E$\gamma$, I$\gamma$. $^{191}$Ir transitions deduced energy differences relative to reference. HPGe detectors. CONF Sarov(Nucleus-2006),Contrib,P96,Lashko |
| $^{191}$Pt | 2006LAZY | RADIOACTIVITY $^{191}$Pt(EC) [from $^{190}$Pt(n, $\gamma$) E=th]; measured E$\gamma$, I$\gamma$. $^{191}$Ir transitions deduced energy differences relative to reference. HPGe detectors. CONF Sarov(Nucleus-2006),Contrib,P96,Lashko |
| $^{191}$Hg | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E $\approx$ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| $^{191}$Pb | 2006IOZY | NUCLEAR REACTIONS $^{168,170}$Er($^{28}$Si, 4n), ($^{28}$Si, 5n), E=193 MeV; measured E$\gamma$, I$\gamma$($\theta$, H, t). $^{192,193,194}$Pb levels deduced spectroscopic quadrupole moments for high-spin isomeric states. CONF Isle of Kos (FINUSTAR),Proc,P278 |

## A=192

| | | |
|---|---|---|
| $^{192}$Pt | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |
| $^{192}$Hg | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E $\approx$ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| $^{192}$Pb | 2006IOZY | NUCLEAR REACTIONS $^{168,170}$Er($^{28}$Si, 4n), ($^{28}$Si, 5n), E=193 MeV; measured E$\gamma$, I$\gamma$($\theta$, H, t). $^{192,193,194}$Pb levels deduced spectroscopic quadrupole moments for high-spin isomeric states. CONF Isle of Kos (FINUSTAR),Proc,P278 |

## A=193

| | | |
|---|---|---|
| $^{193}$Au | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E $\approx$ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| $^{193}$Hg | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E $\approx$ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| $^{193}$Pb | 2006IOZY | NUCLEAR REACTIONS $^{168,170}$Er($^{28}$Si, 4n), ($^{28}$Si, 5n), E=193 MeV; measured E$\gamma$, I$\gamma$($\theta$, H, t). $^{192,193,194}$Pb levels deduced spectroscopic quadrupole moments for high-spin isomeric states. CONF Isle of Kos (FINUSTAR),Proc,P278 |

## A=194

| | | |
|---|---|---|
| $^{194}$Pt | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |
| $^{194}$Au | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E $\approx$ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^{6}$He, 2n), ($^{6}$He, 3n), ($^{6}$He, 4n), ($^{6}$He, 5n), ($^{6}$He, 6n), ($^{6}$He, 7n), E $\approx$ 10-70 MeV; $^{206}$Pb($^{6}$He, 2n), E $\approx$ 10-26 MeV; $^{197}$Au($^{6}$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E $\approx$ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |
| $^{194}$Pb | 2006IOZY | NUCLEAR REACTIONS $^{168,170}$Er($^{28}$Si, 4n), ($^{28}$Si, 5n), E=193 MeV; measured E$\gamma$, I$\gamma$($\theta$, H, t). $^{192,193,194}$Pb levels deduced spectroscopic quadrupole moments for high-spin isomeric states. CONF Isle of Kos (FINUSTAR),Proc,P278 |

## A=195

| | | |
|---|---|---|
| $^{195}$Au | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E $\approx$ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |

**A=195 *(continued)***

| | | |
|---|---|---|
| $^{195}$Hg | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E ≈ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |

## A=196

| | | |
|---|---|---|
| $^{196}$Pt | 2006REZX | NUCLEAR REACTIONS $^{192}$Os($^{82}$Se, $^{84}$Se), E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{84}$Se, $^{190}$Os deduced levels, J, $\pi$. $^{192}$Os($^{82}$Se, X)$^{74}$Ge / $^{76}$Ge / $^{78}$Ge / $^{80}$Ge / $^{82}$Ge / $^{192}$Pt / $^{194}$Pt / $^{196}$Pt, E=460 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin, $\gamma$-ray multiplicity. $^{74,76,78,80,82}$Ge, $^{192,194,196}$Pt deduced levels, J, $\pi$. GASP array. CONF San Servolo(Fusion06),Proc,P271 |
| | 2006RO37 | NUCLEAR REACTIONS $^{12}$C, $^{27}$Al, $^{56}$Fe, $^{197}$Au(e, e'p), E=3.3 GeV; measured Ep, angular distributions; deduced transparency, spectral functions. JOUR NPBSE 159 152 |
| $^{196}$Au | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E ≈ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^{6}$He, 2n), ($^{6}$He, 3n), ($^{6}$He, 4n), ($^{6}$He, 5n), ($^{6}$He, 6n), ($^{6}$He, 7n), E ≈ 10-70 MeV; $^{206}$Pb($^{6}$He, 2n), E ≈ 10-26 MeV; $^{197}$Au($^{6}$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E ≈ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |
| | 2006TR09 | NUCLEAR REACTIONS $^{197}$Au($\gamma$, n)$^{196m}$Au / $^{196}$Au, E ≈ 15-25 MeV bremsstrahlung; measured yields; deduced isomeric ratio. Comparison with previous results and model predictions. JOUR FECLA 133 7 |
| $^{196}$Tl | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^{6}$He, 2n), ($^{6}$He, 3n), ($^{6}$He, 4n), ($^{6}$He, 5n), ($^{6}$He, 6n), ($^{6}$He, 7n), E ≈ 10-70 MeV; $^{206}$Pb($^{6}$He, 2n), E ≈ 10-26 MeV; $^{197}$Au($^{6}$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E ≈ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |

## A=197

| | | |
|---|---|---|
| $^{197}$Au | 2006KI12 | NUCLEAR REACTIONS $^{197}$Au(X-ray, X-ray), E ≈ 80 keV; measured X-ray spectra. $^{197}$Au deduced nuclear excitation by electron transition. JOUR PRVCA 74 031301 |
| | 2006ST21 | NUCLEAR REACTIONS $^{197}$Au($^{38}$S, $^{38}$S'), ($^{40}$S, $^{40}$S'), E ≈ 40 MeV / nucleon; measured E$\gamma$, I$\gamma$($\theta$, H, t), (particle)$\gamma$-coin following projectile Coulomb excitation. $^{38,40}$S levels deduced excitation B(E2), g factors. Transient field technique. JOUR PRVCA 74 054307 |

**A=197 *(continued)***

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|---|---|---|
| | 2006VAZW | NUCLEAR REACTIONS $^{197}$Au($^{106}$Sn, $^{106}$Sn'), ($^{108}$Sn, $^{108}$Sn'), ($^{110}$Sn, $^{110}$Sn'), ($^{112}$Sn, $^{112}$Sn'), E ≈ 80 MeV / nucleon; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{106,108,110,112}$Sn deduced transitions B(E2). Comparison with shell model predictions. PREPRINT nucl-ex/0612011,12/08/2006 |
| $^{197}$Hg | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E ≈ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| $^{197}$Tl | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^{6}$He, 2n), ($^{6}$He, 3n), ($^{6}$He, 4n), ($^{6}$He, 5n), ($^{6}$He, 6n), ($^{6}$He, 7n), E ≈ 10-70 MeV; $^{206}$Pb($^{6}$He, 2n), E ≈ 10-26 MeV; $^{197}$Au($^{6}$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E ≈ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |

## A=198

| | | |
|---|---|---|
| $^{198}$Au | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E ≈ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| | 2006KRZU | NUCLEAR REACTIONS $^{197}$Au(n, $\gamma$), E=thermal, 10-100 keV; measured E$\gamma$, sum-energy spectra; deduced anomalous behavior. CONF Isle of Kos (FINUSTAR),Proc,P481 |
| | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^{6}$He, 2n), ($^{6}$He, 3n), ($^{6}$He, 4n), ($^{6}$He, 5n), ($^{6}$He, 6n), ($^{6}$He, 7n), E ≈ 10-70 MeV; $^{206}$Pb($^{6}$He, 2n), E ≈ 10-26 MeV; $^{197}$Au($^{6}$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E ≈ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |
| $^{198}$Tl | 2006KUZX | NUCLEAR REACTIONS $^{197}$Au($\alpha$, $\gamma$), ($\alpha$, n), ($\alpha$, 2n), ($\alpha$, 3n), E=14-36 MeV; measured excitation functions. Activation technique, comparison with model predictions. REPT JINR-P7-2006-14,Kulko |
| | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^{6}$He, 2n), ($^{6}$He, 3n), ($^{6}$He, 4n), ($^{6}$He, 5n), ($^{6}$He, 6n), ($^{6}$He, 7n), E ≈ 10-70 MeV; $^{206}$Pb($^{6}$He, 2n), E ≈ 10-26 MeV; $^{197}$Au($^{6}$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E ≈ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |

## A=199

| | | |
|---|---|---|
| $^{199}$Au | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E ≈ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |

**A=199 *(continued)***

| | | |
|---|---|---|
| $^{199}$Hg | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E ≈ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| $^{199}$Tl | 2006ASZZ | NUCLEAR REACTIONS $^{203}$Tl($\gamma$, n), ($\gamma$, 2n), ($\gamma$, 3n), ($\gamma$, 4n) E < 50 MeV; measured E$\gamma$, I$\gamma$; deduced relative yields. Microtron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P142,Asanov |
| | 2006FOZY | NUCLEAR REACTIONS $^{203}$Tl(n, xn), E=0.6-250 MeV; measured prompt and delayed E$\gamma$, I$\gamma$. $^{199,200,201,202}$Tl deduced isomeric states $T_{1/2}$. $^{203}$Tl deduced isomeric state excitation energy, $T_{1/2}$ upper limit. Geanie array. JOUR BAPSA 51 90,GC8,Fotiades |
| | 2006KUZX | NUCLEAR REACTIONS $^{197}$Au($\alpha$, $\gamma$), ($\alpha$, n), ($\alpha$, 2n), ($\alpha$, 3n), E=14-36 MeV; measured excitation functions. Activation technique, comparison with model predictions. REPT JINR-P7-2006-14,Kulko |
| | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^6$He, 2n), ($^6$He, 3n), ($^6$He, 4n), ($^6$He, 5n), ($^6$He, 6n), ($^6$He, 7n), E ≈ 10-70 MeV; $^{206}$Pb($^6$He, 2n), E ≈ 10-26 MeV; $^{197}$Au($^6$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E ≈ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |

## A=200

| | | |
|---|---|---|
| $^{200}$Au | 2006HE24 | NUCLEAR REACTIONS Pt($\alpha$, X)$^{191}$Hg / $^{192}$Hg / $^{193}$Hg / $^{193m}$Hg / $^{195}$Hg / $^{195m}$Hg / $^{197}$Hg / $^{197m}$Hg / $^{199m}$Hg / $^{193}$Au / $^{194}$Au / $^{195}$Au / $^{195m}$Au / $^{196}$Au / $^{196m}$Au / $^{198}$Au / $^{198m}$Au / $^{199m}$Au / $^{200m}$Au, E ≈ 13-38 MeV; measured excitation functions; deduced thick-target yields. Stacked-foil activation technique. JOUR NIMBE 251 333 |
| $^{200}$Tl | 2006ASZZ | NUCLEAR REACTIONS $^{203}$Tl($\gamma$, n), ($\gamma$, 2n), ($\gamma$, 3n), ($\gamma$, 4n) E < 50 MeV; measured E$\gamma$, I$\gamma$; deduced relative yields. Microtron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P142,Asanov |
| | 2006FOZY | NUCLEAR REACTIONS $^{203}$Tl(n, xn), E=0.6-250 MeV; measured prompt and delayed E$\gamma$, I$\gamma$. $^{199,200,201,202}$Tl deduced isomeric states $T_{1/2}$. $^{203}$Tl deduced isomeric state excitation energy, $T_{1/2}$ upper limit. Geanie array. JOUR BAPSA 51 90,GC8,Fotiades |
| | 2006KUZX | NUCLEAR REACTIONS $^{197}$Au($\alpha$, $\gamma$), ($\alpha$, n), ($\alpha$, 2n), ($\alpha$, 3n), E=14-36 MeV; measured excitation functions. Activation technique, comparison with model predictions. REPT JINR-P7-2006-14,Kulko |
| | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^6$He, 2n), ($^6$He, 3n), ($^6$He, 4n), ($^6$He, 5n), ($^6$He, 6n), ($^6$He, 7n), E ≈ 10-70 MeV; $^{206}$Pb($^6$He, 2n), E ≈ 10-26 MeV; $^{197}$Au($^6$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E ≈ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |

## A=201

| | | |
|---|---|---|
| $^{201}$Tl | 2006ASZZ | NUCLEAR REACTIONS $^{203}$Tl($\gamma$, n), ($\gamma$, 2n), ($\gamma$, 3n), ($\gamma$, 4n) E < 50 MeV; measured E$\gamma$, I$\gamma$; deduced relative yields. Microtron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P142,Asanov |

**A=201** ***(continued)***

2006FOZY NUCLEAR REACTIONS $^{203}$Tl(n, xn), E=0.6-250 MeV; measured prompt and delayed E$\gamma$, I$\gamma$. $^{199,200,201,202}$Tl deduced isomeric states $T_{1/2}$. $^{203}$Tl deduced isomeric state excitation energy, $T_{1/2}$ upper limit. Geanie array. JOUR BAPSA 51 90,GC8,Fotiades

2006KUZX NUCLEAR REACTIONS $^{197}$Au($\alpha$, $\gamma$), ($\alpha$, n), ($\alpha$, 2n), ($\alpha$, 3n), E=14-36 MeV; measured excitation functions. Activation technique, comparison with model predictions. REPT JINR-P7-2006-14,Kulko

2006PEZW NUCLEAR REACTIONS $^{197}$Au($^{6}$He, 2n), ($^{6}$He, 3n), ($^{6}$He, 4n), ($^{6}$He, 5n), ($^{6}$He, 6n), ($^{6}$He, 7n), E $\approx$ 10-70 MeV; $^{206}$Pb($^{6}$He, 2n), E $\approx$ 10-26 MeV; $^{197}$Au($^{6}$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E $\approx$ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich

## A=202

$^{202}$Tl

2006ASZZ NUCLEAR REACTIONS $^{203}$Tl($\gamma$, n), ($\gamma$, 2n), ($\gamma$, 3n), ($\gamma$, 4n) E < 50 MeV; measured E$\gamma$, I$\gamma$; deduced relative yields. Microtron, HPGe detector. CONF Sarov(Nucleus-2006),Contrib,P142,Asanov

2006FOZY NUCLEAR REACTIONS $^{203}$Tl(n, xn), E=0.6-250 MeV; measured prompt and delayed E$\gamma$, I$\gamma$. $^{199,200,201,202}$Tl deduced isomeric states $T_{1/2}$. $^{203}$Tl deduced isomeric state excitation energy, $T_{1/2}$ upper limit. Geanie array. JOUR BAPSA 51 90,GC8,Fotiades

## A=203

$^{203}$Tl

2006FOZY NUCLEAR REACTIONS $^{203}$Tl(n, xn), E=0.6-250 MeV; measured prompt and delayed E$\gamma$, I$\gamma$. $^{199,200,201,202}$Tl deduced isomeric states $T_{1/2}$. $^{203}$Tl deduced isomeric state excitation energy, $T_{1/2}$ upper limit. Geanie array. JOUR BAPSA 51 90,GC8,Fotiades

## A=204

No references found

## A=205

$^{205}$Pb

2006DOZY NUCLEAR REACTIONS $^{204}$Pb(n, $\gamma$), E=0.001-440 keV; measured capture $\sigma$; deduced resonance parameters. PREPRINT nucl-ex/0610033,10/24/2006

## A=206

No references found

## A=207

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|---|---|---|
| $^{207}$Tl | 2006HA50 | NUCLEAR REACTIONS $^{208}$Pb($\alpha$, $\alpha$'p), E=200 MeV; measured Ep, E$\alpha$, $\sigma$(E, $\theta$). $^{90}$Zr, $^{116}$Sn, $^{208}$Pb($\alpha$, $\alpha$'n), E=200 MeV; measured En, E$\alpha$. $^{90}$Zr, $^{116}$Sn, $^{208}$Pb deduced branching ratios for particle decay of isoscalar GDR. Comparison with model predictions. JOUR IMPEE 15 1357 |
| | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{207}$Pb | 2006HA50 | NUCLEAR REACTIONS $^{208}$Pb($\alpha$, $\alpha$'p), E=200 MeV; measured Ep, E$\alpha$, $\sigma$(E, $\theta$). $^{90}$Zr, $^{116}$Sn, $^{208}$Pb($\alpha$, $\alpha$'n), E=200 MeV; measured En, E$\alpha$. $^{90}$Zr, $^{116}$Sn, $^{208}$Pb deduced branching ratios for particle decay of isoscalar GDR. Comparison with model predictions. JOUR IMPEE 15 1357 |
| | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |

## A=208

| | | |
|---|---|---|
| $^{208}$Tl | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{208}$Pb | 2005MB12 | NUCLEAR REACTIONS $^{12}$C($^{6}$Li, $^{6}$Li), ($^{6}$Li, $^{6}$Li'), E=63 MeV; measured $\sigma(\theta)$; deduced optical model parameters. $^{12}$C, $^{16}$O, $^{24}$Mg, $^{28}$Si, $^{40}$Ca, $^{60}$Ni, $^{90}$Zr, $^{124}$Sn, $^{208}$Pb($^{6}$Li, $^{6}$Li), E $\approx$ 50-90 MeV; calculated $\sigma(\theta)$. JOUR BRSPE 69 1761 |
| | 2006DO25 | NUCLEAR REACTIONS $^{207}$Pb(n, $\gamma$), E=3-320 keV; measured $\sigma$; deduced resonance parameters, Maxwellian averaged $\sigma$. Comparison with previous results. JOUR PRVCA 74 055802 |
| | 2006DOZX | NUCLEAR REACTIONS $^{207}$Pb(n, $\gamma$), E=3-320 keV; measured $\sigma$; deduced resonance parameters, Maxwellian averaged $\sigma$. PREPRINT nucl-ex/0610039,10/26/2006 |
| | 2006HA50 | NUCLEAR REACTIONS $^{208}$Pb($\alpha$, $\alpha$'p), E=200 MeV; measured Ep, E$\alpha$, $\sigma$(E, $\theta$). $^{90}$Zr, $^{116}$Sn, $^{208}$Pb($\alpha$, $\alpha$'n), E=200 MeV; measured En, E$\alpha$. $^{90}$Zr, $^{116}$Sn, $^{208}$Pb deduced branching ratios for particle decay of isoscalar GDR. Comparison with model predictions. JOUR IMPEE 15 1357 |
| | 2006HAZV | NUCLEAR REACTIONS $^{208}$Pb($^{6}$Li, d$\alpha$), E=150 MeV / nucleon; measured deuteron and $\alpha$ spectra, angular distributions. $^{2}$H($\alpha$, $\gamma$), E(cm) $\approx$ 0-1.5 MeV; deduced astrophysical S-factors. CONF Isle of Kos (FINUSTAR),Proc,P21 |
| | 2006HE21 | NUCLEAR REACTIONS $^{208}$Pb(p, p'), E=14.92-17.48 MeV; measured Ep, $\sigma$(E, $\theta$). $^{207}$Pb(d, p), E=22 MeV; measured Ed, $\sigma$(E, $\theta$). $^{208}$Pb deduced levels, J, $\pi$, configurations. JOUR PRVCA 74 034303 |

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

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|---|---|---|
| | 2006HEZR | NUCLEAR REACTIONS $^{207}$Pb(d, p), E$^*$=5.2-5.7 MeV; measured Ep, $\sigma(\theta)$. $^{208}$Pb deduced $0^-$ states level energies, spectroscopic factors, mixing strength. PREPRINT nucl-ex/0611013,11/10/2006 |
| | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| | 2006TOZX | NUCLEAR REACTIONS $^{208}$Pb($^{102}$Ru, $^{102}$Ru'), E=440 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin following projectile Coulomb excitation. $^{102}$Ru deduced levels, J, $\pi$. Gemini-II array. REPT JAEA-Review 2006-029,P25,Toh |
| | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |
| | 2006URZZ | NUCLEAR REACTIONS $^{208}$Pb($^{90}$Zr, X), E=560 MeV; measured fragments isotopic yields following multinucleon transfer, velocity distributions, E$\gamma$, I$\gamma$. $^{208}$Pb($^{90}$Zr, $^{90}$Zr), E=560 MeV; measured $\sigma(\theta)$. $^{92}$Zr deduced transitions. CONF San Servolo(Fusion06),Proc,P43 |
| $^{208}$Fr | 2006POZX | NUCLEAR REACTIONS Be($^{238}$U, X), E=900 MeV / nucleon; measured prompt and delayed E$\gamma$, I$\gamma$, (recoil)$\gamma$-, $\gamma\gamma$-coin. $^{208}$Fr, $^{211}$Ra, $^{216}$Ac deduced levels, J, $\pi$, isomeric states $T_{1/2}$. CONF Isle of Kos (FINUSTAR),Proc,P114 |

## A=209

| | | |
|---|---|---|
| $^{209}$Pb | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |
| $^{209}$Bi | 2006GLZZ | NUCLEAR REACTIONS $^{209}$Bi($^{11}$Be, $^{11}$Be), ($^{11}$Be, 2n$^{9}$Be), E=40 MeV; measured elastic and quasi-elastic $\sigma(\theta)$. CONF San Servolo(Fusion06),Proc,P108 |
| $^{209}$At | 2006TAZX | RADIOACTIVITY $^{209}$Rn(EC) [from $^{197}$Au($^{16}$O, 4n) and subsequent decay]; measured E$\gamma$, I$\gamma$, anisotropy following decay of polarized source. $^{209}$At transitions deduced limits on mixing ratios. PREPRINT nucl-ex/0612006,12/07/2006 |
| $^{209}$Rn | 2006TAZX | RADIOACTIVITY $^{209}$Rn(EC) [from $^{197}$Au($^{16}$O, 4n) and subsequent decay]; measured E$\gamma$, I$\gamma$, anisotropy following decay of polarized source. $^{209}$At transitions deduced limits on mixing ratios. PREPRINT nucl-ex/0612006,12/07/2006 |

## A=210

| | | |
|---|---|---|
| $^{210}$Pb | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |
| $^{210}$Bi | 2006DOZW | NUCLEAR REACTIONS $^{209}$Bi(n, $\gamma$), E $\approx$ 0.8-23 keV; measured $\sigma$; deduced resonance parameters, Maxwellian averaged $\sigma$. PREPRINT nucl-ex/0610040,10/26/2006 |
| $^{210}$Po | 2006PEZW | NUCLEAR REACTIONS $^{197}$Au($^{6}$He, 2n), ($^{6}$He, 3n), ($^{6}$He, 4n), ($^{6}$He, 5n), ($^{6}$He, 6n), ($^{6}$He, 7n), E $\approx$ 10-70 MeV; $^{206}$Pb($^{6}$He, 2n), E $\approx$ 10-26 MeV; $^{197}$Au($^{6}$He, X)$^{194}$Au / $^{196}$Au / $^{198}$Au, E $\approx$ 10-60 MeV; measured excitation functions. REPT JINR-E7-2006-75,Penionzhkevich |

## A=211

| | | |
|---|---|---|
| $^{211}$Pb | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |
| $^{211}$Bi | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{211}$Po | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |
| $^{211}$Ra | 2006POZX | NUCLEAR REACTIONS Be($^{238}$U, X), E=900 MeV / nucleon; measured prompt and delayed E$\gamma$, I$\gamma$, (recoil)$\gamma$-, $\gamma\gamma$-coin. $^{208}$Fr, $^{211}$Ra, $^{216}$Ac deduced levels, J, $\pi$, isomeric states $T_{1/2}$. CONF Isle of Kos (FINUSTAR),Proc,P114 |

## A=212

| | | |
|---|---|---|
| $^{212}$Pb | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{212}$Bi | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{212}$Po | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |

**A=212** ***(continued)***

2006TSZZ RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov

## A=213

$^{213}$Pb 2006STZX RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006

$^{213}$Bi 2006STZX RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006

$^{213}$Po 2006STZX RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006

2006TSZZ RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov

## A=214

$^{214}$Po 2006TSZZ RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov

$^{214}$Th 2006LEZR RADIOACTIVITY $^{218,218m,219}$U($\alpha$) [from $^{182}$W($^{40}$Ar, xn)]; measured E$\alpha$, $T_{1/2}$. $^{218}$U deduced isomeric state J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P487

## A=215

$^{215}$Bi 2006STZX RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006

$^{215}$Po 2006STZX RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006

2006TSZZ RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov

**A=215** ***(continued)***

| | | |
|---|---|---|
| $^{215}$Th | 2006LEZR | RADIOACTIVITY $^{218,218m,219}$U($\alpha$) [from $^{182}$W($^{40}$Ar, xn)]; measured E$\alpha$, $T_{1/2}$. $^{218}$U deduced isomeric state J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P487 |

## A=216

| | | |
|---|---|---|
| $^{216}$Po | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{216}$Ac | 2006POZX | NUCLEAR REACTIONS Be($^{238}$U, X), E=900 MeV / nucleon; measured prompt and delayed E$\gamma$, I$\gamma$, (recoil)$\gamma$-, $\gamma\gamma$-coin. $^{208}$Fr, $^{211}$Ra, $^{216}$Ac deduced levels, J, $\pi$, isomeric states $T_{1/2}$. CONF Isle of Kos (FINUSTAR),Proc,P114 |

## A=217

| | | |
|---|---|---|
| $^{217}$Po | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{217}$At | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |

## A=218

| | | |
|---|---|---|
| $^{218}$U | 2006LEZR | RADIOACTIVITY $^{218,218m,219}$U($\alpha$) [from $^{182}$W($^{40}$Ar, xn)]; measured E$\alpha$, $T_{1/2}$. $^{218}$U deduced isomeric state J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P487 |

## A=219

| | | |
|---|---|---|
| $^{219}$At | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{219}$Rn | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{219}$U | 2006LEZR | RADIOACTIVITY $^{218,218m,219}$U($\alpha$) [from $^{182}$W($^{40}$Ar, xn)]; measured E$\alpha$, $T_{1/2}$. $^{218}$U deduced isomeric state J, $\pi$. CONF Isle of Kos (FINUSTAR),Proc,P487 |

## A=220

| | | |
|---|---|---|
| $^{220}$Rn | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{220}$Th | 2006RE15 | NUCLEAR REACTIONS $^{198}$Pt($^{26}$Mg, 4n), E=128 MeV; measured E$\gamma$, I$\gamma$, $\gamma\gamma$-, (recoil)$\gamma$-coin. $^{220}$Th deduced high-spin levels, J, $\pi$, B(E1) / B(E2). Gammasphere array. JOUR PRVCA 74 044305 |

## A=221

| | | |
|---|---|---|
| $^{221}$Rn | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{221}$Fr | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |

## A=222

| | | |
|---|---|---|
| $^{222}$Rn | 2007NE01 | RADIOACTIVITY $^{226}$Ra, $^{237}$Np, $^{233}$U($\alpha$); measured E$\alpha$, I$\alpha$; deduced activity. JOUR ARISE 65 209 |

## A=223

| | | |
|---|---|---|
| $^{223}$Fr | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{223}$Ra | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |

## A=224

| | | |
|---|---|---|
| $^{224}$Ra | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |

## A=225

| | | |
|---|---|---|
| $^{225}$Ra | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{225}$Ac | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |

## A=226

| | | |
|---|---|---|
| $^{226}$Ra | 2007NE01 | RADIOACTIVITY $^{226}$Ra, $^{237}$Np, $^{233}$U($\alpha$); measured E$\alpha$, I$\alpha$; deduced activity. JOUR ARISE 65 209 |

## A=227

| | | |
|---|---|---|
| $^{227}$Ac | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |
| $^{227}$Th | 2006STZX | RADIOACTIVITY $^{227}$Th, $^{225,227}$Ac, $^{224,225}$Ra, $^{221,223}$Fr, $^{219,220,221}$Rn, $^{217,219}$At, $^{212,213,215,216,217}$Po, $^{211,212}$Bi($\alpha$); measured E$\alpha$, $\gamma$-ray anisotropy, $T_{1/2}$ for sources implanted in metals. PREPRINT nucl-ex/0611041,11/29/2006 |

## A=228

| | | |
|---|---|---|
| $^{228}$Fr | 2006LI59 | ATOMIC MASSES $^{235}$Ac, $^{228m}$Fr; measured mass, $T_{1/2}$. Stored beams, Schottky mass spectrometry. JOUR IMPEE 15 1645 |
| $^{228}$Ra | 2006XU10 | RADIOACTIVITY $^{228}$Ra($\beta^-$); measured $\beta$-delayed fission fragment tracks. $^{228}$Ac deduced $\beta$-delayed fission probability. Radiochemical separation, mica foils. JOUR PRVCA 74 047303 |
| $^{228}$Ac | 2006XU10 | RADIOACTIVITY $^{228}$Ra($\beta^-$); measured $\beta$-delayed fission fragment tracks. $^{228}$Ac deduced $\beta$-delayed fission probability. Radiochemical separation, mica foils. JOUR PRVCA 74 047303 |

## A=229

| | | |
|---|---|---|
| $^{229}$Th | 2005GA63 | NUCLEAR REACTIONS $^{229}$Th($\gamma$, $\gamma$'), E=8.2 MeV bremsstrahlung; measured prompt and delayed E$\gamma$, I$\gamma$; deduced no light emission from isomer decay. JOUR BRSPE 69 1857 |
| | 2007NE01 | RADIOACTIVITY $^{226}$Ra, $^{237}$Np, $^{233}$U($\alpha$); measured E$\alpha$, I$\alpha$; deduced activity. JOUR ARISE 65 209 |

## A=230

| | | |
|---|---|---|
| $^{230}$Pa | 2006CSZX | NUCLEAR REACTIONS $^{231}$Pa(d, p), (d, t), E=12 MeV; measured triton and proton spectra. $^{230,232}$Pa deduced excited states. REPT MLL 2005 Annual, P17,Csatlos |

## A=231

| | | |
|---|---|---|
| $^{231}$Ra | 2006BO33 | RADIOACTIVITY $^{231}$Ra($\beta^-$) [from U(p, X)]; measured E$\gamma$, I$\gamma$, $T_{1/2}$. JOUR PHSTB T125 180 |
| $^{231}$Ac | 2006BO33 | RADIOACTIVITY $^{231}$Ra($\beta^-$) [from U(p, X)]; measured E$\gamma$, I$\gamma$, $T_{1/2}$. JOUR PHSTB T125 180 |
| $^{231}$Th | 2006AL28 | RADIOACTIVITY $^{235}$U($\alpha$); $^{234}$Th, $^{234,234m}$Pa($\beta^-$); measured E$\gamma$, I$\gamma$; deduced absolute intensities. JOUR NIMAE 568 734 |

## A=232

| | | |
|---|---|---|
| $^{232}$Pa | 2006CSZX | NUCLEAR REACTIONS $^{231}$Pa(d, p), (d, t), E=12 MeV; measured triton and proton spectra. $^{230,232}$Pa deduced excited states. REPT MLL 2005 Annual, P17,Csatlos |
| $^{232}$U | 2006CSZW | NUCLEAR REACTIONS $^{231}$Pa($^3$He, dF), E=38.1 MeV; measured deuteron and fission fragment spectra. $^{232}$U deduced fission probability vs excitation energy. REPT MLL 2005 Annual, P18,Csatlos |

## A=233

| | | |
|---|---|---|
| $^{233}$Pa | 2007NE01 | RADIOACTIVITY $^{226}$Ra, $^{237}$Np, $^{233}$U($\alpha$); measured E$\alpha$, I$\alpha$; deduced activity. JOUR ARISE 65 209 |
| $^{233}$U | 2007NE01 | RADIOACTIVITY $^{226}$Ra, $^{237}$Np, $^{233}$U($\alpha$); measured E$\alpha$, I$\alpha$; deduced activity. JOUR ARISE 65 209 |

## A=234

| | | |
|---|---|---|
| $^{234}$Th | 2006AL28 | RADIOACTIVITY $^{235}$U($\alpha$); $^{234}$Th, $^{234,234m}$Pa($\beta^-$); measured E$\gamma$, I$\gamma$; deduced absolute intensities. JOUR NIMAE 568 734 |
| $^{234}$Pa | 2006AL28 | RADIOACTIVITY $^{235}$U($\alpha$); $^{234}$Th, $^{234,234m}$Pa($\beta^-$); measured E$\gamma$, I$\gamma$; deduced absolute intensities. JOUR NIMAE 568 734 |
| $^{234}$U | 2006AL28 | RADIOACTIVITY $^{235}$U($\alpha$); $^{234}$Th, $^{234,234m}$Pa($\beta^-$); measured E$\gamma$, I$\gamma$; deduced absolute intensities. JOUR NIMAE 568 734 |

## A=235

| | | |
|---|---|---|
| $^{235}$Ac | 2006LI59 | ATOMIC MASSES $^{235}$Ac, $^{228m}$Fr; measured mass, $T_{1/2}$. Stored beams, Schottky mass spectrometry. JOUR IMPEE 15 1645 |
| $^{235}$U | 2006AL28 | RADIOACTIVITY $^{235}$U($\alpha$); $^{234}$Th, $^{234,234m}$Pa($\beta^-$); measured E$\gamma$, I$\gamma$; deduced absolute intensities. JOUR NIMAE 568 734 |

## A=236

| | | |
|---|---|---|
| $^{236}$U | 2006CSZV | NUCLEAR REACTIONS $^{235}$U(d, pF), E=13 MeV; measured Ep, fission fragment spectra. $^{236}$U deduced fission probability vs excitation energy, hyperdeformed transmission resonances. REPT MLL 2005 Annual, P19,Csige |

## A=237

| | | |
|---|---|---|
| $^{237}$Np | 2007NE01 | RADIOACTIVITY $^{226}$Ra, $^{237}$Np, $^{233}$U($\alpha$); measured E$\alpha$, I$\alpha$; deduced activity. JOUR ARISE 65 209 |
| $^{237}$Pu | 2006MOZT | NUCLEAR REACTIONS $^{235}$U($\alpha$, X), E=24 MeV; measured prompt and delayed E$\gamma$, I$\gamma$, fission fragment spectra. $^{237}$Pu deduced fission isomer features. REPT MLL 2005 Annual, P20,Morgan |

## A=238

| | | |
|---|---|---|
| $^{238}$Np | 2005LEZS | NUCLEAR REACTIONS $^{241,242,243}$Am, $^{242}$Pu, $^{237}$Np(n, $\gamma$), E=spectrum; measured capture $\sigma$. $^{238}$Np(n, F), E=spectrum; measured fission $\sigma$. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P11 |

## A=239

| | | |
|---|---|---|
| $^{239}$U | 2005OBZW | NUCLEAR REACTIONS $^{238}$U(n, $\gamma$), E=1 MeV; measured delayed E$\gamma$, I$\gamma$ following shape isomer decay. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P273 |

## A=240

| | | |
|---|---|---|
| $^{240}$Am | 2006PEZX | NUCLEAR REACTIONS $^{241}$Am(n, 2n), E=8.8-11.1 MeV; measured $\sigma$. Activation technique. CONF Isle of Kos (FINUSTAR),Proc,P532 |

## A=241

No references found

## A=242

No references found

## A=243

No references found

## A=244

| | | |
|---|---|---|
| $^{244}$Cm | 2005VOZS | RADIOACTIVITY $^{244,248}$Cm, $^{252}$Cf(SF); measured fission neutron multiplicities vs fragment mass, kinetic energy. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P255 |

## A=245

No references found

## A=246

No references found

## A=247

| | | |
|---|---|---|
| $^{247}$Es | 2006CH52 | RADIOACTIVITY $^{255}$Lr, $^{251}$Md($\alpha$) [from $^{209}$Bi($^{48}$Ca, 2n) and subsequent decay]; measured E$\alpha$, E$\gamma$, E(ce), $\alpha\gamma$-, $\alpha$(ce)-coin, Q$\alpha$, $T_{1/2}$. $^{255}$Lr, $^{251}$Md, $^{247}$Es deduced levels, J, $\pi$, configurations. JOUR ZAANE 30 397 |

## A=248

| | | |
|---|---|---|
| $^{248}$Cm | 2005PIZX | RADIOACTIVITY $^{248}$Cm(SF); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{97}$Sr, $^{99,101}$Zr deduced levels, J, $\pi$, shape coexistence features. Eurogam 2 array. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P149 |
| | 2005VOZS | RADIOACTIVITY $^{244,248}$Cm, $^{252}$Cf(SF); measured fission neutron multiplicities vs fragment mass, kinetic energy. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P255 |

## A=249

| | | |
|---|---|---|
| $^{249}$Cm | 2006AH09 | RADIOACTIVITY $^{253}$Es, $^{255}$Fm($\alpha$); $^{249}$Cm($\beta^-$); $^{251}$Es(EC); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{249}$Bk, $^{251}$Cf deduced single-particle states. Gammasphere array. JOUR PHSTB T125 78 |
| $^{249}$Bk | 2006AH09 | RADIOACTIVITY $^{253}$Es, $^{255}$Fm($\alpha$); $^{249}$Cm($\beta^-$); $^{251}$Es(EC); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{249}$Bk, $^{251}$Cf deduced single-particle states. Gammasphere array. JOUR PHSTB T125 78 |
| $^{249}$Fm | 2006LO12 | RADIOACTIVITY $^{253}$No($\alpha$) [from $^{207}$Pb($^{48}$Ca, 2n)]; measured E$\alpha$, E$\gamma$, $\alpha\gamma$-coin. $^{249}$Fm deduced levels, J, $\pi$, ICC, configurations. Level systematics in neighboring isotones discussed. JOUR PRVCA 74 044303 |

## A=250

| | | |
|---|---|---|
| $^{250}$Cm | 2006ISZX | NUCLEAR REACTIONS $^{248}$Cm($^{18}$O, $^{16}$O), E=162 MeV; measured E$\gamma$, I$\gamma$, (particle)$\gamma$-coin. $^{250}$Cm deduced levels, J, $\pi$. REPT JAEA-Review 2006-029,P39,Ishii |

## A=251

| | | |
|---|---|---|
| $^{251}$Cf | 2006AH09 | RADIOACTIVITY $^{253}$Es, $^{255}$Fm($\alpha$); $^{249}$Cm($\beta^-$); $^{251}$Es(EC); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{249}$Bk, $^{251}$Cf deduced single-particle states. Gammasphere array. JOUR PHSTB T125 78 |
| $^{251}$Es | 2006AH09 | RADIOACTIVITY $^{253}$Es, $^{255}$Fm($\alpha$); $^{249}$Cm($\beta^-$); $^{251}$Es(EC); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{249}$Bk, $^{251}$Cf deduced single-particle states. Gammasphere array. JOUR PHSTB T125 78 |
| $^{251}$Fm | 2006ASZY | RADIOACTIVITY $^{255}$No($\alpha$) [from $^{248}$Cm($^{12}$C, 5n)]; measured E$\gamma$, I$\gamma$, $\alpha\gamma$-coin. $^{251}$Fm deduced levels, J, $\pi$, configurations. REPT JAEA-Review 2006-029,P41,Asai |
| | 2006NI10 | RADIOACTIVITY $^{263,265}$Sg, $^{259}$Rf, $^{255}$No($\alpha$) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{262,264}$Sg, $^{261}$Rf(SF) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured $T_{1/2}$, fission fragments kinetic energy. JOUR ZAANE 29 281 |
| $^{251}$Md | 2006CH52 | RADIOACTIVITY $^{255}$Lr, $^{251}$Md($\alpha$) [from $^{209}$Bi($^{48}$Ca, 2n) and subsequent decay]; measured E$\alpha$, E$\gamma$, E(ce), $\alpha\gamma$-, $\alpha$(ce)-coin, Q$\alpha$, $T_{1/2}$. $^{255}$Lr, $^{251}$Md, $^{247}$Es deduced levels, J, $\pi$, configurations. JOUR ZAANE 30 397 |

## A=252

| | | |
|---|---|---|
| $^{252}$Cf | 2005KOZV | RADIOACTIVITY $^{252}$Cf(SF); measured light charged particle spectra, yields following ternary and quaternary fission. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P115 |
| | 2005VAZW | RADIOACTIVITY $^{252}$Cf(SF); measured neutron spectra, fission fragment mass distributions. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P369 |
| | 2005VOZS | RADIOACTIVITY $^{244,248}$Cm, $^{252}$Cf(SF); measured fission neutron multiplicities vs fragment mass, kinetic energy. CONF Cadarache (Nucl Fission and Fission-Product Spec) Proc, P255 |
| | 2006DI16 | RADIOACTIVITY $^{252}$Cf(SF); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{105}$Mo deduced high-spin levels, J, $\pi$, configurations. Gammasphere array, total Routhian surface calculations, level systematics in neighboring isotopes discussed. JOUR PRVCA 74 054301 |
| | 2006DI17 | RADIOACTIVITY $^{252}$Cf(SF); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{105}$Mo deduced high-spin levels, J, $\pi$, configurations. Gammasphere array, total Routhian surface calculations, level systematics in neighboring isotopes discussed. JOUR CPLEE 23 3222 |

## A=253

| | | |
|---|---|---|
| $^{253}$Es | 2006AH09 | RADIOACTIVITY $^{253}$Es, $^{255}$Fm($\alpha$); $^{249}$Cm($\beta^-$); $^{251}$Es(EC); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{249}$Bk, $^{251}$Cf deduced single-particle states. Gammasphere array. JOUR PHSTB T125 78 |
| $^{253}$No | 2006LO12 | RADIOACTIVITY $^{253}$No($\alpha$) [from $^{207}$Pb($^{48}$Ca, 2n)]; measured E$\alpha$, E$\gamma$, $\alpha\gamma$-coin. $^{249}$Fm deduced levels, J, $\pi$, ICC, configurations. Level systematics in neighboring isotones discussed. JOUR PRVCA 74 044303 |

## A=254

| | | |
|---|---|---|
| $^{254}$No | 2006EEZZ | NUCLEAR REACTIONS $^{208}$Pb($^{48}$Ca, 2n), E not given; measured E$\gamma$, I$\gamma$, E(ce), I(ce), (recoil)$\gamma$-, (recoil)(ce)-coin. $^{254}$No deduced levels, non-yrast states. CONF Isle of Kos (FINUSTAR),Proc,P445 |
| | 2006HE25 | NUCLEAR REACTIONS $^{208}$Pb($^{48}$Ca, 2n), E=219 MeV; measured delayed E$\gamma$, I$\gamma$, E(ce), I(ce), X-ray spectra, (recoil)$\gamma$-coin. $^{254}$No deduced isomeric states energies, J, $\pi$, $T_{1/2}$. Recoil-decay tagging. JOUR PHSTB T125 73 |

## A=255

| | | |
|---|---|---|
| $^{255}$Fm | 2006AH09 | RADIOACTIVITY $^{253}$Es, $^{255}$Fm($\alpha$); $^{249}$Cm($\beta^-$); $^{251}$Es(EC); measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin. $^{249}$Bk, $^{251}$Cf deduced single-particle states. Gammasphere array. JOUR PHSTB T125 78 |
| $^{255}$No | 2006ASZY | RADIOACTIVITY $^{255}$No($\alpha$) [from $^{248}$Cm($^{12}$C, 5n)]; measured E$\gamma$, I$\gamma$, $\alpha\gamma$-coin. $^{251}$Fm deduced levels, J, $\pi$, configurations. REPT JAEA-Review 2006-029,P41,Asai |
| | 2006GR24 | RADIOACTIVITY $^{262,264}$Sg(SF); measured $T_{1/2}$, $\alpha$-decay branching upper limit. $^{263}$Sg(SF), ($\alpha$); measured $T_{1/2}$, branching ratio. $^{259}$Rf, $^{255}$No; measured $T_{1/2}$. JOUR PRVCA 74 044611 |
| | 2006NI10 | RADIOACTIVITY $^{263,265}$Sg, $^{259}$Rf, $^{255}$No($\alpha$) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{262,264}$Sg, $^{261}$Rf(SF) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured $T_{1/2}$, fission fragments kinetic energy. JOUR ZAANE 29 281 |
| $^{255}$Lr | 2006CH52 | RADIOACTIVITY $^{255}$Lr, $^{251}$Md($\alpha$) [from $^{209}$Bi($^{48}$Ca, 2n) and subsequent decay]; measured E$\alpha$, E$\gamma$, E(ce), $\alpha\gamma$-, $\alpha$(ce)-coin, Q$\alpha$, $T_{1/2}$. $^{255}$Lr, $^{251}$Md, $^{247}$Es deduced levels, J, $\pi$, configurations. JOUR ZAANE 30 397 |

## A=256

No references found

## A=257

$^{257}$No 2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

## A=258

$^{258}$Fm 2006NIZW NUCLEAR REACTIONS $^{244}$Pu($^{18}$O, $\alpha$), E=103, 113 MeV; measured E$\alpha$, (fission fragment)$\alpha$-coin; deduced reaction mechanism features. REPT JAEA-Review 2006-029,P49,Nishinaka

## A=259

$^{259}$Rf 2006GR24 RADIOACTIVITY $^{262,264}$Sg(SF); measured $T_{1/2}$, $\alpha$-decay branching upper limit. $^{263}$Sg(SF), ($\alpha$); measured $T_{1/2}$, branching ratio. $^{259}$Rf, $^{255}$No; measured $T_{1/2}$. JOUR PRVCA 74 044611

2006NI10 RADIOACTIVITY $^{263,265}$Sg, $^{259}$Rf, $^{255}$No($\alpha$) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{262,264}$Sg, $^{261}$Rf(SF) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured $T_{1/2}$, fission fragments kinetic energy. JOUR ZAANE 29 281

## A=260

No references found

## A=261

$^{261}$Rf 2006DV01 RADIOACTIVITY $^{269,270}$Hs, $^{265}$Sg($\alpha$) [from $^{248}$Cm($^{26}$Mg, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{266}$Sg(SF) [from $^{270}$Hs decay]; measured $T_{1/2}$. Rapid chemical separation. JOUR PRLTA 97 242501

2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

2006NI10 RADIOACTIVITY $^{263,265}$Sg, $^{259}$Rf, $^{255}$No($\alpha$) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{262,264}$Sg, $^{261}$Rf(SF) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured $T_{1/2}$, fission fragments kinetic energy. JOUR ZAANE 29 281

## A=262

$^{262}$Db 2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

**A=262 *(continued)***

| | | |
|---|---|---|
| $^{262}$Sg | 2006GR24 | NUCLEAR REACTIONS $^{238}$U($^{30}$Si, 4n), ($^{30}$Si, 5n), ($^{30}$Si, 6n), E=147-174 MeV; measured delayed E$\alpha$, (recoil)$\alpha$-coin; deduced excitation functions. JOUR PRVCA 74 044611 |
| | 2006GR24 | RADIOACTIVITY $^{262,264}$Sg(SF); measured $T_{1/2}$, $\alpha$-decay branching upper limit. $^{263}$Sg(SF), ($\alpha$); measured $T_{1/2}$, branching ratio. $^{259}$Rf, $^{255}$No; measured $T_{1/2}$. JOUR PRVCA 74 044611 |
| | 2006NI10 | RADIOACTIVITY $^{263,265}$Sg, $^{259}$Rf, $^{255}$No($\alpha$) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{262,264}$Sg, $^{261}$Rf(SF) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured $T_{1/2}$, fission fragments kinetic energy. JOUR ZAANE 29 281 |

## A=263

| | | |
|---|---|---|
| $^{263}$Sg | 2006GR24 | NUCLEAR REACTIONS $^{238}$U($^{30}$Si, 4n), ($^{30}$Si, 5n), ($^{30}$Si, 6n), E=147-174 MeV; measured delayed E$\alpha$, (recoil)$\alpha$-coin; deduced excitation functions. JOUR PRVCA 74 044611 |
| | 2006GR24 | RADIOACTIVITY $^{262,264}$Sg(SF); measured $T_{1/2}$, $\alpha$-decay branching upper limit. $^{263}$Sg(SF), ($\alpha$); measured $T_{1/2}$, branching ratio. $^{259}$Rf, $^{255}$No; measured $T_{1/2}$. JOUR PRVCA 74 044611 |
| | 2006NI10 | NUCLEAR REACTIONS $^{238}$U($^{30}$Si, F), ($^{30}$Si, 3n), ($^{30}$Si, 4n), ($^{30}$Si, 5n), E=145.5, 151.2, 163.5 MeV; measured fission and evaporation residue $\sigma$. JOUR ZAANE 29 281 |
| | 2006NI10 | RADIOACTIVITY $^{263,265}$Sg, $^{259}$Rf, $^{255}$No($\alpha$) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{262,264}$Sg, $^{261}$Rf(SF) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured $T_{1/2}$, fission fragments kinetic energy. JOUR ZAANE 29 281 |

## A=264

| | | |
|---|---|---|
| $^{264}$Sg | 2006GR24 | NUCLEAR REACTIONS $^{238}$U($^{30}$Si, 4n), ($^{30}$Si, 5n), ($^{30}$Si, 6n), E=147-174 MeV; measured delayed E$\alpha$, (recoil)$\alpha$-coin; deduced excitation functions. JOUR PRVCA 74 044611 |
| | 2006GR24 | RADIOACTIVITY $^{262,264}$Sg(SF); measured $T_{1/2}$, $\alpha$-decay branching upper limit. $^{263}$Sg(SF), ($\alpha$); measured $T_{1/2}$, branching ratio. $^{259}$Rf, $^{255}$No; measured $T_{1/2}$. JOUR PRVCA 74 044611 |
| | 2006NI10 | NUCLEAR REACTIONS $^{238}$U($^{30}$Si, F), ($^{30}$Si, 3n), ($^{30}$Si, 4n), ($^{30}$Si, 5n), E=145.5, 151.2, 163.5 MeV; measured fission and evaporation residue $\sigma$. JOUR ZAANE 29 281 |
| | 2006NI10 | RADIOACTIVITY $^{263,265}$Sg, $^{259}$Rf, $^{255}$No($\alpha$) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{262,264}$Sg, $^{261}$Rf(SF) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured $T_{1/2}$, fission fragments kinetic energy. JOUR ZAANE 29 281 |

## A=265

$^{265}$Sg 2006DV01 RADIOACTIVITY $^{269,270}$Hs, $^{265}$Sg($\alpha$) [from $^{248}$Cm($^{26}$Mg, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{266}$Sg(SF) [from $^{270}$Hs decay]; measured $T_{1/2}$. Rapid chemical separation. JOUR PRLTA 97 242501

2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

2006NI10 NUCLEAR REACTIONS $^{238}$U($^{30}$Si, F), ($^{30}$Si, 3n), ($^{30}$Si, 4n), ($^{30}$Si, 5n), E=145.5, 151.2, 163.5 MeV; measured fission and evaporation residue $\sigma$. JOUR ZAANE 29 281

2006NI10 RADIOACTIVITY $^{263,265}$Sg, $^{259}$Rf, $^{255}$No($\alpha$) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{262,264}$Sg, $^{261}$Rf(SF) [from $^{238}$U($^{30}$Si, xn) and subsequent decay]; measured $T_{1/2}$, fission fragments kinetic energy. JOUR ZAANE 29 281

## A=266

$^{266}$Sg 2006DV01 RADIOACTIVITY $^{269,270}$Hs, $^{265}$Sg($\alpha$) [from $^{248}$Cm($^{26}$Mg, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{266}$Sg(SF) [from $^{270}$Hs decay]; measured $T_{1/2}$. Rapid chemical separation. JOUR PRLTA 97 242501

$^{266}$Bh 2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

## A=267

$^{267}$Rf 2006OG05 RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602

## A=268

$^{268}$Db 2006TSZZ RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov

## A=269

$^{269}$Hs 2006DV01 RADIOACTIVITY $^{269,270}$Hs, $^{265}$Sg($\alpha$) [from $^{248}$Cm($^{26}$Mg, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{266}$Sg(SF) [from $^{270}$Hs decay]; measured $T_{1/2}$. Rapid chemical separation. JOUR PRLTA 97 242501

2006DV01 NUCLEAR REACTIONS $^{248}$Cm($^{26}$Mg, 4n), ($^{26}$Mg, 5n), E=136, 145 MeV; measured delayed E$\alpha$, $\alpha\alpha$-coin; deduced production $\sigma$. JOUR PRLTA 97 242501

**A=269 *(continued)***

2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

## A=270

$^{270}$Hs 2006DV01 RADIOACTIVITY $^{269,270}$Hs, $^{265}$Sg($\alpha$) [from $^{248}$Cm($^{26}$Mg, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{266}$Sg(SF) [from $^{270}$Hs decay]; measured $T_{1/2}$. Rapid chemical separation. JOUR PRLTA 97 242501

2006DV01 NUCLEAR REACTIONS $^{248}$Cm($^{26}$Mg, 4n), ($^{26}$Mg, 5n), E=136, 145 MeV; measured delayed E$\alpha$, $\alpha\alpha$-coin; deduced production $\sigma$. JOUR PRLTA 97 242501

$^{270}$Mt 2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

## A=271

$^{271}$Sg 2006OG05 RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602

$^{271}$Bh 2006TSZZ RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov

## A=272

$^{272}$Bh 2006TSZZ RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov

## A=273

$^{273}$Ds 2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

## A=274

$^{274}$Rg 2006MOZV RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253

## A=275

| | | |
|---|---|---|
| $^{275}$Hs | 2006OG05 | RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602 |
| $^{275}$Mt | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |

## A=276

| | | |
|---|---|---|
| $^{276}$Mt | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |

## A=277

| | | |
|---|---|---|
| $^{277}$112 | 2006MOZV | NUCLEAR REACTIONS $^{208}$Pb($^{70}$Zn, n), E=349.5 MeV; measured E$\alpha$, (recoil)$\alpha$-coin following residual nucleus decay; deduced evidence for $^{277}$112. $^{209}$Bi($^{70}$Zn, n), E=352.6 MeV; measured E$\alpha$, (recoil)$\alpha$-coin following residual nucleus decay; deduced evidence for $^{278}$113. CONF San Servolo(Fusion06),Proc,P253 |
| | 2006MOZV | RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253 |

## A=278

| | | |
|---|---|---|
| $^{278}$113 | 2006MOZV | NUCLEAR REACTIONS $^{208}$Pb($^{70}$Zn, n), E=349.5 MeV; measured E$\alpha$, (recoil)$\alpha$-coin following residual nucleus decay; deduced evidence for $^{277}$112. $^{209}$Bi($^{70}$Zn, n), E=352.6 MeV; measured E$\alpha$, (recoil)$\alpha$-coin following residual nucleus decay; deduced evidence for $^{278}$113. CONF San Servolo(Fusion06),Proc,P253 |
| | 2006MOZV | RADIOACTIVITY $^{278}$113, $^{277}$112, $^{274}$Rg, $^{273}$Ds, $^{270}$Mt, $^{269}$Hs, $^{266}$Bh, $^{265}$Sg, $^{261}$Rf($\alpha$) [following $^{208}$Pb, $^{209}$Bi($^{70}$Zn, n) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. CONF San Servolo(Fusion06),Proc,P253 |

## A=279

| | | |
|---|---|---|
| $^{279}$Ds | 2006OG05 | RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602 |

**A=279 *(continued)***

| | | |
|---|---|---|
| $^{279}$Rg | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |

## A=280

| | | |
|---|---|---|
| $^{280}$Rg | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |

## A=281

No references found

## A=282

| | | |
|---|---|---|
| $^{282}$112 | 2006OG05 | RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602 |

## A=283

| | | |
|---|---|---|
| $^{283}$112 | 2006OG05 | RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602 |
| $^{283}$113 | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |

## A=284

| | | |
|---|---|---|
| $^{284}$113 | 2006TSZZ | RADIOACTIVITY $^{211,212,213,214,215}$Po, $^{272}$Bh, $^{275,276}$Mt, $^{279,280}$Rg, $^{283,284}$113($\alpha$) [from $^{243}$Am($^{48}$Ca, xn)]; measured E$\alpha$. REPT JINR-E13-2006-19,Tsyganov |

## A=285

No references found

## A=286

| | | |
|---|---|---|
| $^{286}$114 | 2006OG05 | RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602 |

## A=287

| | | |
|---|---|---|
| $^{287}$114 | 2006OG05 | RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602 |

## A=288

No references found

## A=289

No references found

## A=290

| | | |
|---|---|---|
| $^{290}$116 | 2006OG05 | NUCLEAR REACTIONS $^{245}$Cm($^{48}$Ca, 2n), ($^{48}$Ca, 3n), E=249, 255 MeV; $^{249}$Cf($^{48}$Ca, 3n), E=251 MeV; measured E$\alpha$, $\alpha\alpha$-coin, fission fragment spectra following residual nucleus decay; deduced $\sigma$. JOUR PRVCA 74 044602 |
| | 2006OG05 | RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602 |

## A=291

| | | |
|---|---|---|
| $^{291}$116 | 2006OG05 | NUCLEAR REACTIONS $^{245}$Cm($^{48}$Ca, 2n), ($^{48}$Ca, 3n), E=249, 255 MeV; $^{249}$Cf($^{48}$Ca, 3n), E=251 MeV; measured E$\alpha$, $\alpha\alpha$-coin, fission fragment spectra following residual nucleus decay; deduced $\sigma$. JOUR PRVCA 74 044602 |

### A=291 *(continued)*

20060G05 RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602

## A=292

No references found

## A=293

No references found

## A=294

$^{294}$118 20060G05 NUCLEAR REACTIONS $^{245}$Cm($^{48}$Ca, 2n), ($^{48}$Ca, 3n), E=249, 255 MeV; $^{249}$Cf($^{48}$Ca, 3n), E=251 MeV; measured E$\alpha$, $\alpha\alpha$-coin, fission fragment spectra following residual nucleus decay; deduced $\sigma$. JOUR PRVCA 74 044602

20060G05 RADIOACTIVITY $^{294}$118, $^{290,291}$116, $^{286,287}$114, $^{283}$112, $^{279}$Ds, $^{275}$Hs, $^{271}$Sg($\alpha$) [from $^{245}$Cm, $^{249}$Cf($^{48}$Ca, xn) and subsequent decay]; measured E$\alpha$, $T_{1/2}$. $^{282}$112, $^{267}$Rf(SF) [from $\alpha$-decay of $^{286}$Rf and $^{271}$Sg]; measured fission fragment spectra, $T_{1/2}$. JOUR PRVCA 74 044602

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