APPENDIX D. ENERGY-ORDERED DECAY γ-RAY TABLE

An energy-ordered list of γ rays from nuclei with half-lives ≥1 d is given in Table 1. The table includes only the most intense γ rays (up to a maximum of four lines) from each parent. Intensities are absolute (γ's per 100 parent decays) unless preceded by a †. These data are taken from the *Table of Isotopes*. E_γ for the strongest associated lines from each decay are listed in order of decreasing intensity.

Table 1. The most intense decay γ-rays from parents with $t_{1/2}$≥1 d

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
6.238 *20*	1.03 *3*	^{181}W(121.2 d)	136.266, 152.315
7.133 *10*	4.95 *15*	^{160}Er(28.58 h)	59.98
8.41031 *19*	0.158 *18*	^{169}Er(9.40 d)	109.77987, 118.19018
9.3 *1*		^{227}Ac(21.773 y)	24.5, 15.2
10.6 *5*	0.8	^{137}Ce(9.0 h)	447.15, 436.59, 433.22
12.4	3.0×10^{-6}	^{45}Ca(163.8 d)	
12.76 *3*	†19 *4*	^{228}Ra(5.75 y)	13.52, 16.18, 18.8
13.271 *18*	0.089	^{73}As(80.30 d)	53.440
13.52 *2*	†100	^{228}Ra(5.75 y)	16.18, 12.76, 18.8
14.41300 *15*	9.16 *15*	^{57}Co(271.79 d)	122.0614, 136.4743, 692.03
15.2 *1*		^{227}Ac(21.773 y)	24.5, 9.3
16.18 *3*	†45 *5*	^{228}Ra(5.75 y)	13.52, 12.76, 18.8
16.4 *3*	8.3 *17*	^{72}Zn(46.5 h)	145.04, 191.96, 103.14
18.5 *5*	27.2 *6*	^{112}Pd(21.03 h)	
18.8 *4*	†13 *3*	^{228}Ra(5.75 y)	13.52, 16.18, 12.76
19.394 *2*	13.7 *7*	^{171}Lu(8.24 d)	739.78, 667.404, 75.878
21.531 *7*	0.031	^{151}Sm(90 y)	
21.531 *7*	2.85 *12*	^{151}Gd(124 d)	153.56, 243.28, 174.70
22.510 *8*	>0.050	^{149}Pm(53.08 h)	285.95, 859.46, 590.88
22.510 *8*	2.32 *6*	^{149}Eu(93.1 d)	327.526, 277.089, 254.566
23.001 *17*	0.15 *3*	^{255}Fm(20.07 h)	81.477, 58.477, 80.92
23.28 *1*	6.4 *6*	^{126}Sn(1×10^5 y)	87.57, 64.28, 86.94
23.870 *8*	16.1 *5*	^{119}Sb(38.19 h)	
23.9331 *2*	20.3 *11*	^{172}Hf(1.87 y)	125.812, 67.35, 81.7515
24.46 *1*	3.90 *15*	^{101}Pd(8.47 h)	296.29, 590.44, 269.67
24.5 *2*		^{227}Ac(21.773 y)	15.2, 9.3
25.646 *4*	14.5 *3*	^{231}Th(25.52 h)	84.216, 89.944, 81.227
25.646 *4*	12	^{231}U(4.2 d)	84.216, 217.940, 58.570
25.646 *4*	†0.00041 *5*	^{235}Np(396.1 d)	84.216, 81.227, 58.570
25.65150 *7*	23.2 *10*	^{161}Tb(6.88 d)	48.91562, 74.56711, 57.196
26.345 *1*	2.43 *6*	^{237}U(6.75 d)	59.537, 208.00, 164.61
26.345 *1*	0.221 *7*	^{237}Pu(45.2 d)	59.537, 33.195, 43.423
26.345 *1*	†0.41000 *5*	^{241}Am(432.2 y)	59.537, 33.195, 43.423
27.36 *1*	10.3 *4*	^{231}Pa(32760 y)	300.07, 302.65, 283.69
27.58 *2*	3.5 *4*	^{246}Pu(10.84 d)	43.81, 223.75, 179.94
28.242 *9*	1.13 *8*	^{166}Dy(81.6 h)	82.471, 54.2400, 426.00
29.10 *10*	21.6 *15*	^{86}Zr(16.5 h)	242.80, 612.00, 135.6
29.192 *1*	0.0120 *3*	^{233}U(1.592×10^5 y)	42.44, 97.134, 54.699
29.374 *20*	15.0 *10*	^{237}Np(2.14×10^6 y)	86.477, 94.66, 143.249
29.9640 *7*	14.1 *4*	^{140}Ba(12.752 d)	537.261, 162.660, 304.849
30.60 *3*	0.253 *5*	^{201}Tl(72.912 h)	167.43, 135.34, 32.19
30.6383 *11*	95 *1*	^{28}Mg(20.91 h)	1342.27, 941.72, 400.56
30.77 *2*		^{93}Zr(1.53×10^6 y)	
30.77 *2*		^{93}Mo(4.0×10^3 y)	
30.898 *4*	0.75 *3*	^{195}Au(186.09 d)	98.85, 129.70, 211.407
32.19 *3*	0.258 *5*	^{201}Tl(72.912 h)	167.43, 135.34, 30.60
33.195 *11*	0.0745 *23*	^{237}Pu(45.2 d)	59.537, 26.345, 43.423
33.195 *11*	†0.02600 *1*	^{241}Am(432.2 y)	59.537, 26.345, 43.423
33.568 *10*	0.200 *22*	^{144}Ce(284.893 d)	133.515, 80.120, 40.98
34.0		^{251}Es(33 h)	177.7, 152.8, 163.8
35.4919 *5*	6.68 *13*	^{125}I(59.408 d)	
35.7 *3*		^{255}Es(39.8 d)	269.1, 233.6
36.202 *16*	0.67 *6*	^{189}Ir(13.2 d)	245.09, 69.537, 59.053
37.138 *10*	1.9	^{121}Sn(55 y)	
37.138 *10*	0.94 *10*	^{121}Te(154 d)	1102.149, 998.291, 909.847
37.9681 *7*	>2.9	^{156}Sm(9.4 h)	87.4897, 203.818, 165.8452
38.661 *2*	0.000500 *2*	^{239}Pu(24110 y)	51.624, 129.297, 375.045
39.08	†>0.15	^{134}Ce(75.9 h)	162.306, 130.414, 300.884
39.578 *4*	7.45 *30*	^{129}I(1.57×10^7 y)	
39.578 *4*	2.97 *9*	^{129}Cs(32.06 h)	371.918, 411.490, 548.945
39.757 *6*	0.07	^{103}Pd(16.991 d)	357.47, 497.080, 294.978
40.09 *5*	30	^{225}Ra(14.9 d)	
40.09 *5*	0.104 *9*	^{229}Pa(1.50 d)	64.70, 75.12, 115.55
40.84 *3*	25.5 *13*	^{62}Zn(9.186 h)	596.56, 548.35, 507.60
40.98 *10*	0.257 *16*	^{144}Ce(284.893 d)	133.515, 80.120, 33.568
41.0 *5*	30.0 *20*	^{118}Sb(5.00 h)	1229.68, 253.68, 1050.69
41	0.006	^{243}Bk(4.5 h)	187.1, 536, 146.4
41.4 *2*	9.2 *9*	^{184}Hf(4.12 h)	139.1, 344.9, 181.0
41.53 *6*		^{248}Bk(23.7 h)	550.7, 592.2
41.53 *6*	0.011	^{252}Fm(25.39 h)	96.28
41.79 *5*	0.050	^{253}Es(20.47 d)	389.11, 387.1, 42.98
41.8 *2*	0.76 *7*	^{243}Pu(4.956 h)	84.0, 381.7, 67
41.86 *2*	0.00513 *23*	^{191}Os(15.4 d)	129.419, 82.407, 47.05
41.95 *3*	0.350 *17*	^{245}Cm(8500 y)	174.94, 132.99, 189.82
42.10 *2*	7.7 *14*	^{100}Pd(3.63 d)	84.02, 74.78, 126.05
42.13 *1*		^{242}Am(16.02 h)	
42.13 *1*	0.014	^{246}Cf(35.7 h)	96, 146
42.44 *2*	0.044 *3*	^{229}Pa(1.50 d)	118.968, 146.345, 117.159
42.44 *2*	0.0862 *13*	^{233}U(1.592×10^5 y)	97.134, 54.699, 29.192
42.824 *8*	0.09 *1*	^{240}Am(50.8 h)	987.76, 888.80, 98.860
42.824 *8*	0.0044100 *24*	^{244}Cm(18.10 y)	98.860, 152.63, 554.60
42.852 *5*	0.014	^{250}Cf(13.08 y)	
42.98 *3*	0.009	^{253}Es(20.47 d)	41.79, 389.11, 387.1
43.119 *1*	5	^{194}Os(6.0 y)	82.339
43.38 *3*	0.007	^{248}Bk(23.7 h)	
43.38 *3*	0.0148 *9*	^{252}Cf(2.645 y)	100.4, 155.0
43.423 *10*	0.0039	^{237}Pu(45.2 d)	59.537, 26.345, 33.195
43.423 *10*	†0.00300 *8*	^{241}Am(432.2 y)	59.537, 26.345, 33.195
43.498 *1*	0.0395 *8*	^{238}Pu(87.74 y)	99.853, 152.720, 766.38
43.533 *1*	5.93 *13*	^{243}Am(7370 y)	74.664, 117.84, 86.71
43.81 *2*	25.0 *13*	^{246}Pu(10.84 d)	223.75, 179.94, 27.58
44.08 *3*	0.0325 *12*	^{242}Cm(162.8 d)	101.90, 157.42, 561.11
44.10 *7*	1.05 *5*	^{240}U(14.1 h)	189.7, 66.5, 169.2
44.54 *2*		^{242}Am(16.02 h)	
44.54 *2*		^{246}Cm(4730 y)	
44.63 *10*	0.011	^{236}Np(22.5 h)	
44.63 *10*	0.0167 *6*	^{236}Np(1.54×10^5 y)	158.35, 102.82
44.915 *13*	0.036	^{242}Pu(3.733×10^5 y)	103.50, 158.80
45.242 *3*	0.13 *3*	^{236}Np(1.54×10^5 y)	160.308, 104.234, 104.1
45.242 *3*	0.0450 *8*	^{240}Pu(6563 y)	104.234, 160.308, 212.46
45.2972 *13*	1.326 *25*	^{155}Eu(4.7611 y)	86.545, 105.305, 60.0086
45.48 *2*	19.5 *20*	^{76}Kr(14.8 h)	315.7, 270.2, 406.5
45.85 *9*	58	^{72}Se(8.40 d)	
46.3 *2*	†100	^{253}Cf(17.81 d)	
46.4839 *4*	7.97 *12*	^{183}Re(70.0 d)	162.3219, 291.7238, 208.8057
46.539 *1*	4.25 *4*	^{210}Pb(22.3 y)	
47.05 *3*	0.00270 *20*	^{191}Os(15.4 d)	129.419, 82.407, 41.86
47.155 *6*	16.9 *4*	^{165}Tm(30.06 h)	242.917, 297.369, 806.372
47.574 *9*	0.066	^{236}Pu(2.858 y)	108.96, 166.0, 643.5
48.91562 *14*	17.0 *4*	^{161}Tb(6.88 d)	25.65150, 74.56711, 57.196
49.10 *10*	0.005 *1*	^{239}Am(11.9 h)	
49.367 *4*	0.19	^{242}Am(141 y)	86.68, 109.69, 163.24
49.369 *9*	0.078	^{236}U(2.342×10^7 y)	112.75
49.55 *6*	0.064 *8*	^{238}U(4.468×10^9 y)	113.5
49.72 *1*	15.0 *3*	^{132}Te(3.204 d)	228.16, 116.30, 111.76
49.82680 *16*	0.360 *9*	^{199}Au(3.139 d)	158.37947, 208.20597
50.13 *1*	†8.0 *4*	^{227}Th(18.72 d)	235.971, 256.25, 329.851
51.624 *1*	0.007100 *5*	^{239}Pu(24110 y)	38.661, 129.297, 375.045
51.72 *4*	0.026 *3*	^{230}Pa(17.4 d)	314.8, 366.56, 383.6
52.33 *5*	0.55 *5*	^{252}Es(471.7 d)	64.42, 418.5, 377.4
53.20 *2*	0.123 *2*	^{234}U(2.455×10^5 y)	120.90, 454.95, 508.20
53.440 *9*	10.34	^{73}As(80.30 d)	13.271
54.2400 *7*	0.81 *12*	^{166}Dy(81.6 h)	82.471, 28.242, 426.00
54.548 *9*	3.7 *3*	^{157}Eu(15.18 h)	63.929, 410.723, 370.509
54.548 *9*	0.0084 *8*	^{157}Tb(99 y)	
54.699 *1*	0.0182 *3*	^{233}U(1.592×10^5 y)	42.44, 97.134, 29.192
54.968 *4*	6.81 *17*	^{125}Xe(16.9 h)	188.418, 243.378, 453.796
55.506 *8*	5.8 *3*	^{182}Os(22.10 h)	510.056, 180.230, 263.285
57.0723 *12*	4.6 *8*	^{167}Tm(9.25 d)	207.801, 531.54, 264.9
57.196 *1*	1.79 *5*	^{161}Tb(6.88 d)	25.65150, 48.91562, 74.56711
57.356 *7*	11.7 *3*	^{143}Ce(33.039 h)	293.266, 664.571, 721.929
57.61 *2*	0.50 *5*	^{127}Te(109 d)	658.89, 593.31, 650.91

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
57.762 *5*	0.200 *4*	^{232}U(68.9 y)	129.065, 270.243, 327.995
58.00 *1*	2.15 *10*	^{159}Gd(18.479 h)	363.55, 348.16, 226.01
58.00 *1*	2.22 *13*	^{159}Dy(144.4 d)	348.16, 79.45, 290.27
58.39 *3*	19.2 *4*	^{133}Ce(4.9 h)	477.22, 510.36, 130.803
58.477 *15*	0.67	^{255}Fm(20.07 h)	81.477, 80.92, 23.001
58.570 *3*	0.44	^{231}U(4.2 d)	25.646, 84.216, 217.940
58.570 *3*	†0.00001 *65*	^{235}Np(396.1 d)	25.646, 84.216, 81.227
58.603 *7*	†100	^{60}Fe(1.5×10^{6} y)	
59.053 *15*	1.20 *12*	^{189}Ir(13.2 d)	245.09, 69.537, 36.202
59.537 *1*	34.5 *7*	^{237}U(6.75 d)	208.00, 26.345, 164.61
59.537 *1*	3.28 *10*	^{237}Pu(45.2 d)	26.345, 33.195, 43.423
59.537 *1*	†6	^{241}Am(432.2 y)	26.345, 33.195, 43.423
59.97 *3*	2.30 *13*	^{200}Pt(12.5 h)	76.21, 135.90, 243.71
59.98 *3*	0.069 *4*	^{160}Er(28.58 h)	7.133
60.0 *1*	5.7 *12*	^{185}Ir(14.4 h)	254.4, 1828.8, 97.4
60.0086 *10*	1.13 *5*	^{155}Eu(4.7611 y)	86.545, 105.305, 45.2972
60.82 *7*	0.5 *3*	^{157}Dy(8.14 h)	326.16, 182.20, 83.01
61.25 *5*	12	^{145}Sm(340 d)	492.31, 431.4
61.46 *3*	6.2 *4*	^{195}Hg(9.9 h)	779.80, 585.13, 180.11
61.5 *3*	0.56 *22*	^{251}Cf(898 y)	176.6, 227.0, 285.0
61.6 *1*	1.45 *8*	^{257}Fm(100.5 d)	241.0, 179.4, 104.4
62.47 *5*	0.16	^{253}Fm(3.00 d)	271.8, 144.99, 405
62.6 *2*	0.9 *4*	^{173}Tm(8.24 h)	398.9, 461.4
63.0 *20*	2.0 *2*	^{254}Es(275.7 d)	316, 304, 385
63.12077 *9*	44.2 *6*	^{169}Yb(32.026 d)	197.95788, 177.21402, 109.77987
63.29 *2*	4.8 *5*	^{234}Th(24.10 d)	92.38, 92.80, 112.81
63.582 *3*	0.109 *16*	^{188}W(69.4 d)	290.669, 227.083, 207.849
63.83 *2*	0.267 *14*	^{232}Th(1.405×10^{10} y)	140.86
63.929 *8*	23.0 *23*	^{157}Eu(15.18 h)	410.723, 370.509, 54.548
64.28 *1*	9.6 *11*	^{126}Sn(1×10^{5} y)	87.57, 86.94, 23.28
64.42 *5*	0.274 *23*	^{252}Es(471.7 d)	52.33, 418.5, 377.4
64.70 *5*	0.045 *4*	^{229}Pa(1.50 d)	40.09, 75.12, 115.55
65.548 *13*	0.259 *9*	^{121}Te(16.78 d)	573.139, 507.591, 470.472
66.5 *1*	0.154 *15*	^{240}U(14.1 h)	44.10, 189.7, 169.2
66.720 *10*	0.14	^{171}Tm(1.92 y)	
67 *1*	0.23 *11*	^{243}Pu(4.956 h)	84.0, 41.8, 381.7
67.03 *1*	78 *9*	^{73}Se(7.15 h)	360.80, 865.09, 510
67.22 *2*	0.553 *15*	^{145}Pm(17.7 y)	72.500
67.35 *10*	5.3 *6*	^{172}Hf(1.87 y)	23.9331, 125.812, 81.7515
67.67 *1*	0.11 *3*	^{226}Ac(29 h)	253.73, 186.05
67.67 *1*	0.376 *21*	^{230}Th(7.538×10^{4} y)	143.87, 253.73, 186.05
67.75001 *17*	41.2 *6*	^{182}Ta(114.43 d)	1121.3007, 1221.4066, 1189.0503
67.75001 *17*	38.2 *13*	^{182}Re(12.7 h)	1121.3007, 1221.4066, 1189.0503
67.75001 *17*	22.2 *22*	^{182}Re(64.0 h)	229.3220, 1121.3007, 1221.4066
67.875	94.4 *14*	^{44}Ti(49 y)	78.337, 146.212
68.107 *4*	3.29 *7*	^{172}Er(49.3 h)	610.062, 407.338, 446.025
68.573 *14*	0.42 *3*	^{211}Rn(14.6 h)	167.90, 236.48
69.21 *4*	†0.0071 *6*	^{227}Ac(21.773 y)	100, 160.26, 147.48
69.537 *15*	3.5 *4*	^{189}Ir(13.2 d)	245.09, 59.053, 36.202
69.67340 *22*	4.85 *6*	^{153}Sm(46.27 h)	103.1807, 97.4316, 75.4226
69.67340 *22*	2.54 *9*	^{153}Gd(241.6 d)	97.4316, 103.1807, 83.3676
70.44 *7*	8.3 *12*	^{111}Pd(5.5 h)	391.25, 632.80, 575.0
71.1 *1*	†8.0 *5*	^{258}Md(51.5 d)	367.8, 447.9, 276.8
71.30 *5*	0.043 *4*	^{254}Es(39.3 h)	211.80, 177.30, 104.0
72.001 *4*	11.14 *22*	^{187}W(23.72 h)	685.774, 479.531, 134.243
72.20 *4*	0.56 *13*	^{226}Ac(29 h)	230.37, 158.18, 574.8
72.20 *4*	0.60 *4*	^{230}U(20.8 d)	154.23, 230.37, 158.18
72.500 *4*	0.261 *14*	^{145}Pr(5.984 h)	748.278, 675.795, 978.969
72.500 *4*	1.8	^{145}Pm(17.7 y)	67.22
73.039 *12*	3.2 *5*	^{193}Os(30.5 h)	139.03, 460.50, 557.36
74.56711 *22*	10.2 *2*	^{161}Tb(6.88 d)	25.65150, 48.91562, 57.196
74.664 *1*	68	^{243}Am(7370 y)	43.533, 117.84, 86.71
74.78 *2*	36.5 *8*	^{100}Pd(3.63 d)	84.02, 126.05, 42.10
75.12 *5*	0.035 *3*	^{229}Pa(1.50 d)	40.09, 64.70, 115.55
75.4226 *3*	0.350 *16*	^{153}Sm(46.27 h)	103.1807, 69.67340, 97.4316
75.878 *5*	6.08 *8*	^{171}Lu(8.24 d)	739.78, 19.394, 667.404
76.073 *10*	1.17×10^{-8} *20*	^{147}Pm(2.6234 y)	121.220, 197.299
76.21 *4*	13	^{200}Pt(12.5 h)	135.90, 243.71, 59.97
76.471 *1*	5.9 *3*	^{174}Lu(3.31 y)	1241.847, 1318.296, 1065.04
76.471 *1*	0.0638 *16*	^{174}Lu(142 d)	272.918, 992.128, 176.645
77.10 *10*	†2.11×10^{-5} *7*	^{241}Pu(14.35 y)	148.567, 103.680, 159.955
77.351 *2*	17.0 *16*	^{197}Pt(18.3 h)	191.437, 268.78
77.351 *2*	†0.024 *4*	^{197}Hg(23.8 h)	279.01, 130.2, 201.6
77.351 *2*	18.0 *4*	^{197}Hg(64.14 h)	191.437, 268.78
78.337	96	^{44}Ti(49 y)	67.875, 146.212
78.6 *3*	0.0039	^{170}Tm(128.6 d)	
78.63 *3*	11.87 *17*	^{173}Lu(1.37 y)	272.105, 100.724, 171.393
78.7435 *8*	6.5 *5*	^{172}Tm(63.6 h)	1093.657, 1387.093, 1529.72
79.45 *2*	0.00048 *13*	^{159}Dy(144.4 d)	58.00, 348.16, 290.27
79.5104 *14*	11.6 *4*	^{158}Tb(180 y)	944.09, 962.06, 181.930
79.623 *10*	0.27 *3*	^{133}Xe(5.243 d)	80.997, 160.613, 302.853
80.120 *5*	1.36 *6*	^{144}Ce(284.893 d)	133.515, 40.98, 33.568
80.185 *2*	2.62 *3*	^{131}I(8.02070 d)	364.489, 636.989, 284.305
80.574 *8*	6.71 *8*	^{166}Ho(26.83 h)	1379.40, 1581.89, 1662.48
80.723 *2*	11.10 *22*	^{153}Dy(6.4 h)	213.754, 99.659, 254.259
80.92 *5*	0.27	^{255}Fm(20.07 h)	81.477, 58.477, 23.001
80.997 *3*	38.0 *7*	^{133}Xe(5.243 d)	79.623, 160.613, 302.853
80.997 *3*	34.06 *27*	^{133}Ba(10.52 y)	356.017, 302.853, 383.851
81.227 *3*	0.89 *5*	^{231}Th(25.52 h)	25.646, 84.216, 89.944
81.227 *3*	†0.00003 *93*	^{235}Np(396.1 d)	25.646, 84.216, 58.570
81.477 *20*	0.81	^{255}Fm(20.07 h)	58.477, 80.92, 23.001
81.5 *1*	6 *1*	^{175}Ta(10.5 h)	207.4, 348.5, 266.9
81.7515 *5*	4.52 *23*	^{172}Hf(1.87 y)	23.9331, 125.812, 67.35
81.99 *2*	0.0034 *23*	^{154}Eu(8.593 y)	184.810
82.29 *2*		^{166}Yb(56.7 h)	
82.339 *2*	>0.011	^{194}Os(6.0 y)	43.119
82.407 *7*	0.0255 *20*	^{191}Os(15.4 d)	129.419, 41.86, 47.05
82.407 *7*	4.9 *5*	^{191}Pt(2.9 d)	538.90, 409.44, 359.90
82.471 *2*	14	^{166}Dy(81.6 h)	28.242, 54.2400, 426.00
82.802 *22*	†1.2	^{210}At(8.1 h)	106, 167, 141.2
83.01 *4*	0.62 *18*	^{157}Dy(8.14 h)	326.16, 182.20, 60.82
83.3676 *3*	0.211 *21*	^{153}Gd(241.6 d)	97.4316, 103.1807, 69.67340
84.0 *2*	23	^{243}Pu(4.956 h)	41.8, 381.7, 67
84.0 *2*	40	^{247}Bk(1380 y)	265
84.02 *2*	45	^{100}Pd(3.63 d)	74.78, 126.05, 42.10
84.216 *3*	6.6 *3*	^{231}Th(25.52 h)	25.646, 89.944, 81.227
84.216 *3*	7	^{231}U(4.2 d)	25.646, 217.940, 58.570
84.216 *3*	0.000179 *10*	^{235}Np(396.1 d)	25.646, 81.227, 58.570
84.2551 *3*	3.3	^{170}Tm(128.6 d)	
84.2551 *3*	4.256 *5*	^{170}Lu(2.00 d)	1280.25, 2041.88, 985.10
84.373 *3*	1.266 *20*	^{228}Th(1.9131 y)	215.985, 131.613, 166.411
86.25 *4*	1.33 *10*	^{229}Th(7340 y)	193.509, 210.853, 86.40
86.40 *5*	2.57 *10*	^{229}Th(7340 y)	193.509, 210.853, 86.25
86.477 *10*	12.4 *4*	^{237}Np(2.14×10^{6} y)	29.374, 94.66, 143.249
86.545 *3*	30.7 *6*	^{155}Eu(4.7611 y)	105.305, 45.2972, 60.0086
86.545 *3*	32.0 *6*	^{155}Tb(5.32 d)	105.305, 180.103, 262.322
86.68 *4*	0.037	^{242}Am(141 y)	49.367, 109.69, 163.24
86.71 *2*	0.338 *7*	^{243}Am(7370 y)	74.664, 43.533, 117.84
86.814 *3*	1.97 *12*	^{233}Pa(26.967 d)	312.17, 300.34, 340.81
86.94 *1*	8.9 *9*	^{126}Sn(1×10^{5} y)	87.57, 64.28, 23.28
87.4 *1*		^{243}Bk(4.5 h)	755, 946, 840
87.4897 *3*	24 *7*	^{156}Sm(9.4 h)	203.818, 165.8452, 37.9681
87.57 *1*	37	^{126}Sn(1×10^{5} y)	64.28, 86.94, 23.28
87.73 *1*	1.6×10^{-5} *10*	^{168}Tm(93.1 d)	
87.8671 *15*	0.202 *11*	^{77}As(38.83 h)	238.996, 520.639, 249.786
88.04 *5*	1.171 *3*	^{109}Pd(13.7012 h)	311.4, 647.3, 781.4
88.04 *5*	3.61 *10*	^{109}Cd(462.6 d)	
88.34 *3*	13.3 *13*	^{176}Lu(3.78×10^{10} y)	306.78, 201.83, 400.99
88.34 *3*	12	^{176}Ta(8.09 h)	1159.28, 1224.93, 201.83
88.9667 *14*	8.4 *9*	^{156}Eu(15.19 d)	811.79, 1230.68, 1153.67
88.9667 *14*	17.7 *19*	^{156}Tb(5.35 d)	534.318, 199.2132, 1222.36
89.36 *1*	2.40 *18*	^{175}Hf(70 d)	343.40, 433.0, 229.6
89.65 *7*	†0.0007	^{99}Tc(2.111×10^{5} y)	
89.65 *7*		^{99}Tc(6.01 h)	322.41, 232.72
89.65 *7*	29.0 *13*	^{99}Rh(16.1 d)	528.24, 353.05, 322.41
89.9 *2*	79.5 *16*	^{120}Sb(5.76 d)	1171.3, 1023.1, 197.3
89.944 *5*	0.94 *6*	^{231}Th(25.52 h)	25.646, 84.216, 81.227
90.596 *7*	0.563 *19*	^{122}Xe(20.1 h)	350.065, 148.612, 416.633
91.105 *2*	28	^{147}Nd(10.98 d)	531.016, 319.411, 439.895
91.266 *5*	7.0 *1*	^{67}Cu(61.83 h)	184.577, 93.311, 300.219
92.38 *1*	2.81 *15*	^{234}Th(24.10 d)	63.29, 92.80, 112.81
92.80 *2*	2.77 *15*	^{234}Th(24.10 d)	63.29, 92.38, 112.81
93.124 *20*	1.45 *3*	^{107}Cd(6.50 h)	828.93, 796.462, 324.81
93.311 *5*	16.1 *2*	^{67}Cu(61.83 h)	184.577, 91.266, 300.219
93.311 *5*	39.2 *10*	^{67}Ga(3.2612 d)	184.577, 300.219, 393.529
93.326 *2*	4.5	^{180}Ta(8.152 h)	
94.33 *3*	7.6 *6*	^{189}Pt(10.87 h)	721.41, 568.84, 243.37
94.66 *5*	0.6 *2*	^{237}Np(2.14×10^{6} y)	29.374, 86.477, 143.249
95	†100	^{228}Pa(22 h)	310, 240, 280
96 *3*	0.012	^{246}Cf(35.7 h)	42.13, 146
96.28 *6*	0.036 *3*	^{252}Fm(25.39 h)	41.53
96.73 *8*	0.20 *7*	^{111}Ag(7.45 d)	342.118, 245.422, 620.3
97.134 *1*	0.020 *3*	^{233}U(1.592×10^{5} y)	42.44, 54.699, 29.192
97.4 *2*	4.2 *8*	^{185}Ir(14.4 h)	254.4, 1828.8, 60.0
97.4316 *4*	0.847 *11*	^{153}Sm(46.27 h)	103.1807, 69.67340, 75.4226
97.4316 *4*	30	^{153}Gd(241.6 d)	103.1807, 69.67340, 83.3676

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
98.85 *5*	10.9 *5*	^{195}Au(186.09 d)	129.70, 30.898, 211.407
98.860 *13*	1.5 *2*	^{240}Am(50.8 h)	987.76, 888.80, 42.824
98.860 *13*	0.0001470 *15*	^{244}Cm(18.10 y)	42.824, 152.63, 554.60
98.91 *1*	4.29 *13*	^{158}Tb(180 y)	218.21
99.383 *4*	4.6 *8*	^{244}Am(10.1 h)	743.971, 897.848, 153.863
99.63 *5*	0.62 *3*	^{225}Ac(10.0 d)	99.91, 150.04, 188.00
99.659 *2*	10.51 *10*	^{153}Dy(6.4 h)	80.723, 213.754, 254.259
99.853 *3*	0.00735 *8*	^{238}Pu(87.74 y)	43.498, 152.720, 766.38
99.91 *5*	1.01 *5*	^{225}Ac(10.0 d)	150.04, 99.63, 188.00
100	†0.010	^{227}Ac(21.773 y)	69.21, 160.26, 147.48
100.4 *3*	0.013	^{252}Cf(2.645 y)	43.38, 155.0
100.70 *5*	0.017	^{180}Hf(5.5 h)	
100.724 *20*	5.24 *9*	^{173}Lu(1.37 y)	272.105, 78.63, 171.393
101.90 *3*	0.0025 *4*	^{242}Cm(162.8 d)	44.08, 157.42, 561.11
102.263 *15*	6.0 *3*	^{153}Tb(2.34 d)	212.038, 170.504, 109.758
102.32 *5*	1.88 *13*	^{252}Es(471.7 d)	785.09, 139.03, 924.12
102.82 *2*	0.85 *6*	^{236}Np(1.54×10^5 y)	158.35, 44.63
103.1 *1*	0.39	^{245}Bk(4.94 d)	252.80, 380.8, 385.0
103.14 *17*	2.32 *8*	^{72}Zn(46.5 h)	145.04, 191.96, 16.4
103.1807 *3*	31.4 *4*	^{153}Sm(46.27 h)	69.67340, 97.4316, 75.4226
103.1807 *3*	21.4 *5*	^{153}Gd(241.6 d)	97.4316, 69.67340, 83.3676
103.50 *4*	0.0078 *8*	^{242}Pu(3.733×10^5 y)	44.915, 158.80
103.557 *7*	0.81 *16*	^{180}Ta(8.152 h)	
103.680 *5*	0.0001017 *12*	^{241}Pu(14.35 y)	148.567, 77.10, 159.955
104.0 *2*	0.0102 *10*	^{254}Es(39.3 h)	211.80, 177.30, 71.30
104.1 *10*		^{236}Np(1.54×10^5 y)	160.308, 104.234, 45.242
104.234 *6*		^{236}Np(22.5 h)	642.35, 687.59, 538.11
104.234 *6*	7.2 *3*	^{236}Np(1.54×10^5 y)	160.308, 45.242, 104.1
104.234 *6*	0.00708 *10*	^{240}Pu(6563 y)	45.242, 160.308, 212.46
104.4 *1*	0.62 *5*	^{257}Fm(100.5 d)	241.0, 179.4, 61.6
105.305 *3*	21.2 *5*	^{155}Eu(4.7611 y)	86.545, 45.2972, 60.0086
105.305 *3*	25	^{155}Tb(5.32 d)	86.545, 180.103, 262.322
106 *1*	†0.44	^{210}At(8.1 h)	82.802, 167, 141.2
106.125 *2*	27.2 *4*	^{239}Np(2.3565 d)	277.599, 228.183, 209.753
107.9322 *4*	11.0 *4*	^{183}Ta(5.1 d)	246.0591, 353.9912, 161.3467
108.088 *10*	24.3 *9*	^{151}Tb(17.609 h)	287.357, 251.863, 587.46
108.96 *5*	0.012	^{236}Pu(2.858 y)	47.574, 166.0, 643.5
109.69 *4*	0.024	^{242}Am(141 y)	49.367, 86.68, 163.24
109.758 *15*	6.4 *3*	^{153}Tb(2.34 d)	212.038, 170.504, 102.263
109.77987 *6*	0.0013 *3*	^{169}Er(9.40 d)	8.41031, 118.19018
109.77987 *6*	17.47 *18*	^{169}Yb(32.026 d)	63.12077, 197.95788, 177.21402
111.208 *4*	23.7 *10*	^{184}Ta(8.7 h)	414.03, 252.848, 920.932
111.208 *4*	17.1 *6*	^{184}Re(38.0 d)	903.279, 792.071, 894.757
111.621 *4*	20.5 *8*	^{171}Er(7.516 h)	308.31, 295.901, 124.015
111.76 *8*	1.74 *4*	^{132}Te(3.204 d)	228.16, 49.72, 116.30
112.36 *6*	96.0 *6*	^{48}Cr(21.56 h)	308.25, 420.5
112.75 *2*	0.019 *2*	^{236}U(2.342×10^7 y)	49.369
112.81 *5*	0.277 *20*	^{234}Th(24.10 d)	63.29, 92.38, 92.80
112.9498 *5*	6.4 *3*	^{177}Lu(6.734 d)	208.3664, 321.3162, 249.6741
112.9498 *5*	7.2 *8*	^{177}Ta(56.56 h)	208.3664, 1057.8, 745.9
113.5 *1*	0.0102 *15*	^{238}U(4.468×10^9 y)	49.55
113.805 *4*	1.88 *3*	^{175}Yb(4.185 d)	396.329, 282.522, 144.863
113.94 *5*	40 *5*	^{139}Nd(5.50 h)	737.96, 982.2, 708.06
114.3152 *16*	2.6 *4*	^{182}Hf(9×10^6 y)	270.4031, 156.088, 172.5708
114.463 *5*	20.63 *8*	^{183}Os(13.0 h)	381.768, 167.844, 851.474
114.71 *2*	44.0 *5*	^{146}Gd(48.27 d)	154.57, 115.51, 576.0
115.183 *5*	0.592 *7*	^{212}Pb(10.64 h)	238.632, 300.087, 415.2
115.51 *2*	44.0 *5*	^{146}Gd(48.27 d)	154.57, 114.71, 576.0
115.55 *5*	0.0182 *14*	^{229}Pa(1.50 d)	40.09, 64.70, 75.12
116.30 *8*	1.96 *5*	^{132}Te(3.204 d)	228.16, 49.72, 111.76
117.159 *2*	0.047 *3*	^{229}Pa(1.50 d)	118.968, 146.345, 42.44
117.84 *2*	0.57 *8*	^{243}Am(7370 y)	74.664, 43.533, 86.71
118.19018 *18*	0.00014 *4*	^{169}Er(9.40 d)	8.41031, 109.77987
118.968 *2*	0.130 *6*	^{229}Pa(1.50 d)	146.345, 117.159, 42.44
120.17 *10*	19	^{170}Hf(16.01 h)	164.78, 620.7, 572.9
120.90 *2*	0.0342 *5*	^{234}U(2.455×10^5 y)	53.20, 454.95, 508.20
121.1166 *16*	17.14 *18*	^{75}Se(119.779 d)	264.6584, 136.0008, 279.5441
121.220 *17*	0.0028	^{147}Pm(2.6234 y)	197.299, 76.073
121.220 *17*	22.9 *8*	^{147}Eu(24.1 d)	197.299, 677.516, 1077.043
121.7824 *4*	28.4 *3*	^{152}Eu(13.542 y)	1408.011, 964.131, 1112.116
121.7824 *4*	7.21 *22*	^{152}Eu(9.274 h)	841.586, 963.37, 1389.00
122.0 *1*	†100	^{171}Hf(12.1 h)	662.2, 347.18, 1071.8
122.0614 *4*	85.60 *17*	^{57}Co(271.79 d)	136.4743, 14.41300, 692.03
122.370 *22*	64.2 *23*	^{90}Mo(5.67 h)	257.34, 203.13, 323.20
122.58 *6*	†0.56 *2*	^{186}Re(90.64 h)	
123.071 *1*	40.79 *25*	^{154}Eu(8.593 y)	1274.436, 723.304, 1004.725
123.071 *1*	30 *4*	^{154}Tb(9.4 h)	247.925, 540.18, 649.564
123.071 *1*	26 *4*	^{154}Tb(21.5 h)	1274.436, 2187.10, 722.12
123.071 *1*	43 *8*	^{154}Tb(22.7 h)	247.925, 346.643, 1419.81
123.3790 *20*	0.45 *5*	^{179}Lu(4.59 h)	214.335, 214.930, 337.713
123.672 *13*	83 *3*	^{173}Hf(23.6 h)	296.974, 139.634, 311.239
123.805 *3*	28.97 *23*	^{131}Ba(11.50 d)	496.326, 216.078, 373.246
124.015 *6*	9.1 *3*	^{171}Er(7.516 h)	308.31, 295.901, 111.621
124.70 *5*	11.37 *13*	^{127}Cs(6.25 h)	411.95, 462.31, 587.01
125.3581 *9*	0.019	^{185}W(75.1 d)	
125.812 *3*	11.3 *6*	^{172}Hf(1.87 y)	23.9331, 67.35, 81.7515
126.05 *3*	8.10 *23*	^{100}Pd(3.63 d)	84.02, 74.78, 42.10
127.164 *3*	16.7 *3*	^{57}Ni(35.60 h)	1377.63, 1919.52, 1757.55
127.23 *3*	73	^{101}Rh(3.3 y)	197.6, 324.8, 295.0
127.23 *3*	†0.64 *14*	^{101}Rh(4.34 d)	306.85, 545.06, 179.62
129.065 *3*	0.0686 *8*	^{232}U(68.9 y)	57.762, 270.243, 327.995
129.297 *2*	0.00631 *6*	^{239}Pu(24110 y)	51.624, 38.661, 375.045
129.419 *8*	29.0 *17*	^{191}Os(15.4 d)	82.407, 41.86, 47.05
129.70 *5*	0.817 *22*	^{195}Au(186.09 d)	98.85, 30.898, 211.407
129.820 *12*	0.300 *8*	^{85}Kr(4.480 h)	151.159, 450.85, 731.812
129.820 *12*	>4.3×10^{-7}	^{85}Kr(10.756 y)	514.0067, 362.81, 151.159
130.2 *1*	†0.223 *8*	^{197}Hg(23.8 h)	279.01, 201.6, 77.351
130.414 *15*	†0.209 *15*	^{134}Ce(75.9 h)	162.306, 39.08, 300.884
130.803 *10*	17.9 *4*	^{133}Ce(4.9 h)	477.22, 510.36, 58.39
131.30 *1*	18	^{234}Pa(6.70 h)	946.00, 883.24, 569.5
131.613 *4*	0.1355 *19*	^{228}Th(1.9131 y)	84.373, 215.985, 166.411
132.413 *7*	3.86 *20*	^{241}Cm(32.8 d)	471.805, 430.634, 165.049
132.99 *3*	2.77 *14*	^{245}Cm(8500 y)	174.94, 41.95, 189.82
133.024 *17*	43.3 *5*	^{181}Hf(42.39 d)	482.182, 345.916, 136.266
133.515 *2*	11.09 *11*	^{144}Ce(284.893 d)	80.120, 40.98, 33.568
134.243 *6*	8.85 *16*	^{187}W(23.72 h)	685.774, 479.531, 72.001
135.34 *4*	2.565 *18*	^{201}Tl(72.912 h)	167.43, 32.19, 30.60
135.6 *1*	0.47 *5*	^{86}Zr(16.5 h)	242.80, 29.10, 612.00
135.90 *9*	3.24 *19*	^{200}Pt(12.5 h)	76.21, 243.71, 59.97
136.0008 *6*	58.3 *4*	^{75}Se(119.779 d)	264.6584, 279.5441, 121.1166
136.266 *13*	5.85 *19*	^{181}Hf(42.39 d)	482.182, 133.024, 345.916
136.266 *13*	0.0311 *10*	^{181}W(121.2 d)	6.238, 152.315
136.4743 *5*	10.68 *8*	^{57}Co(271.79 d)	122.0614, 14.41300, 692.03
137.155 *7*	8.22 *8*	^{186}Re(90.64 h)	767.508, 630.354, 333.4
137.155 *7*	42 *3*	^{186}Ir(16.64 h)	296.911, 434.849, 773.276
139.03 *11*	4.27 *20*	^{193}Os(30.5 h)	460.50, 73.039, 557.36
139.03 *5*	13.9 *10*	^{252}Es(471.7 d)	785.09, 924.12, 102.32
139.1 *2*	44.6 *20*	^{184}Hf(4.12 h)	344.9, 181.0, 41.4
139.634 *8*	12.7 *3*	^{173}Hf(23.6 h)	123.672, 296.974, 311.239
140.511 *1*	4.52 *23*	^{99}Mo(65.94 h)	739.50, 181.063, 777.921
140.86 *2*	0.018 *3*	^{232}Th(1.405×10^{10} y)	63.83
141.178 *15*	66.8 *7*	^{90}Nb(14.60 h)	1129.224, 2318.968, 2186.242
141.2	†0.16	^{210}At(8.1 h)	82.802, 106, 167
142.652 *2*	1.02 *4*	^{59}Fe(44.503 d)	1099.251, 1291.596, 192.349
143.249 *20*	0.43 *2*	^{237}Np(2.14×10^6 y)	29.374, 86.477, 94.66
143.764 *2*	10.96 *8*	^{235}U(7.038×10^8 y)	185.712, 163.358, 205.309
143.87 *1*	0.0486 *22*	^{230}Th(7.538×10^4 y)	67.67, 253.73, 186.05
144.232 *10*	3.22 *7*	^{223}Ra(11.435 d)	269.459, 154.21, 323.871
144.863 *5*	0.328 *11*	^{175}Yb(4.185 d)	396.329, 282.522, 113.805
144.99 *6*	0.192 *24*	^{253}Fm(3.00 d)	271.8, 62.47, 405
145.04 *13*	83	^{72}Zn(46.5 h)	191.96, 16.4, 103.14
145.252 *10*	4.29 *13*	^{127}Xe(36.4 d)	202.860, 172.132, 374.991
145.4405 *28*	48.2 *3*	^{141}Ce(32.501 d)	
145.544 *10*		^{241}Cm(32.8 d)	
146 *5*	0.0035	^{246}Cf(35.7 h)	42.13, 96
146.212	0.089 *6*	^{44}Ti(49 y)	78.337, 67.875
146.345 *2*	0.098 *6*	^{229}Pa(1.50 d)	118.968, 117.159, 42.44
146.4 *5*	0.21 *3*	^{146}Pm(5.53 y)	453.88, 735.72, 589.3
146.4 *5*	0.012 *5*	^{243}Bk(4.5 h)	187.1, 536, 41
147.48 *4*	†0.0034 *3*	^{227}Ac(21.773 y)	100, 69.21, 160.26
147.63 *2*	37.7 *10*	^{200}Pb(21.5 h)	257.17, 235.63, 268.38
148.567 *10*	0.0001855 *20*	^{241}Pu(14.35 y)	103.680, 77.10, 159.955
148.612 *4*	2.62 *9*	^{122}Xe(20.1 h)	350.065, 416.633, 90.596
149.735 *3*	48.2 *3*	^{149}Gd(9.28 d)	298.634, 346.651, 748.601
150.04 *2*	0.80 *3*	^{225}Ac(10.0 d)	99.91, 99.63, 188.00
150.059 *3*	10.8 *5*	^{232}Pa(1.31 d)	969.315, 894.351, 453.655
150.824 *17*	0.0028	^{111}In(2.8049 d)	245.422, 171.28
151.159 *6*	75.0 *4*	^{85}Kr(4.480 h)	129.820, 450.85, 731.812
151.159 *6*	2.2×10^{-6} *13*	^{85}Kr(10.756 y)	514.0067, 362.81, 129.820
151.159 *6*	0.0012 *9*	^{85}Sr(64.84 d)	514.0067, 868.5, 362.81
152.315 *17*	0.0083 *3*	^{181}W(121.2 d)	6.238, 136.266
152.63 *2*	<4.9×10^{-7}	^{244}Cm(18.10 y)	42.824, 98.860, 554.60
152.720 *2*	0.000937 *10*	^{238}Pu(87.74 y)	43.498, 99.853, 766.38
152.8 *2*	0.91 *10*	^{251}Es(33 h)	177.7, 163.8, 34.0
153.56 *4*	6.20 *3*	^{151}Gd(124 d)	243.28, 174.70, 21.531
153.59 *3*	66 *3*	^{119}Te(4.70 d)	1212.73, 270.53, 1136.75

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
153.863 *2*	16 *3*	^{244}Am(10.1 h)	743.971, 897.848, 99.383
154.21 *1*	5.62 *14*	^{223}Ra(11.435 d)	269.459, 323.871, 144.232
154.23 *3*	0.125 *7*	^{230}U(20.8 d)	72.20, 230.37, 158.18
154.57 *2*	47	^{146}Gd(48.27 d)	115.51, 114.71, 576.0
155.0 *4*	0.0019	^{252}Cf(2.645 y)	43.38, 100.4
155.032 *12*	14.9 *5*	^{188}Re(16.98 h)	632.99, 477.99, 931.34
155.032 *12*	29.7 *24*	^{188}Ir(41.5 h)	2214.62, 632.99, 477.99
156.088 *2*	7.0 *10*	^{182}Hf(9×10^{6} y)	270.4031, 114.3152, 172.5708
157.2 *3*	7	^{192}Hg(4.85 h)	274.8, 306.5, 186.4
157.42 *5*	0.0014 *2*	^{242}Cm(162.8 d)	44.08, 101.90, 561.11
158.18 *3*	17.5 *5*	^{226}Ac(29 h)	230.37, 72.20, 574.8
158.18 *3*	0.070 *5*	^{230}U(20.8 d)	72.20, 154.23, 230.37
158.260 *4*	0.290 *10*	^{135}Xe(9.14 h)	249.770, 608.151, 408.009
158.35 *2*	4.0	^{236}Np(1.54×10^{5} y)	102.82, 44.63
158.37947 *9*	40.0 *3*	^{199}Au(3.139 d)	208.20597, 49.82680
158.37947 *9*	4.96 *25*	^{199}Tl(7.42 h)	455.46, 208.20597, 247.26
158.38 *3*	†98.8 *10*	^{56}Ni(5.9 d)	811.85, 749.95, 269.50
158.80 *8*	0.00045 *15*	^{242}Pu(3.733×10^{5} y)	44.915, 103.50
158.97 *5*	83	^{123}I(13.27 h)	528.96, 440.02, 538.54
159.369 *20*	67.9 *15*	^{47}Sc(3.345 d)	
159.955 *20*	†6.54×10^{-6} *15*	^{241}Pu(14.35 y)	148.567, 103.680, 77.10
160.26 *5*	†0.0063 *6*	^{227}Ac(21.773 y)	100, 69.21, 147.48
160.308 *3*	32	^{236}Np(1.54×10^{5} y)	104.234, 45.242, 104.1
160.308 *3*	0.000402 *3*	^{240}Pu(6563 y)	45.242, 104.234, 212.46
160.33 *5*	0.00191 *9*	^{123}Sn(129.2 d)	1088.64, 1030.23, 1021.00
160.613 *8*	0.066 *5*	^{133}Xe(5.243 d)	80.997, 79.623, 302.853
161.269 *9*	6.49 *12*	^{184}Re(169 d)	252.848, 216.548, 920.932
161.3467 *5*	8.9 *3*	^{183}Ta(5.1 d)	246.0591, 353.9912, 107.9322
162.306 *10*	†0.230 *16*	^{134}Ce(75.9 h)	130.414, 39.08, 300.884
162.3219 *5*	23.3 *4*	^{183}Re(70.0 d)	46.4839, 291.7238, 208.8057
162.660 *1*	6.21 *8*	^{140}Ba(12.752 d)	537.261, 29.9640, 304.849
163.24 *4*	0.024	^{242}Am(141 y)	49.367, 86.68, 109.69
163.358 *2*	5.08 *4*	^{235}U(7.038×10^{8} y)	185.712, 143.764, 205.309
163.8 *2*	0.10	^{251}Es(33 h)	177.7, 152.8, 34.0
164.61 *2*	1.852 *18*	^{237}U(6.75 d)	59.537, 208.00, 26.345
164.78 *10*	33	^{170}Hf(16.01 h)	620.7, 120.17, 572.9
164.8 *2*	0.0084 *18*	^{245}Bk(4.94 d)	205.879, 471.805, 430.634
164.98 *2*	26.4 *3*	^{149}Tb(4.118 h)	352.24, 388.57, 652.12
165.049 *8*	2.97 *20*	^{241}Cm(32.8 d)	471.805, 430.634, 132.413
165.8452 *24*	12.7 *20*	^{156}Sm(9.4 h)	87.4897, 203.818, 37.9681
165.864 *6*	80	^{139}Ce(137.640 d)	
166.0 *3*	0.00066	^{236}Pu(2.858 y)	47.574, 108.96, 643.5
166.411 *4*	0.1075 *15*	^{228}Th(1.9131 y)	84.373, 215.985, 131.613
167 *2*	†0.28	^{210}At(8.1 h)	82.802, 106, 141.2
167.43 *7*	10	^{201}Tl(72.912 h)	135.34, 32.19, 30.60
167.75 *2*	8.3 *5*	^{151}Pm(28.40 h)	340.08, 275.21, 717.72
167.844 *12*	8.81 *8*	^{183}Os(13.0 h)	381.768, 114.463, 851.474
167.90 *2*	0.07	^{211}Rn(14.6 h)	68.573, 236.48
168.684 *2*	99.2	^{52}Fe(8.275 h)	377.738, 1039.902
169.2 *1*	0.115 *8*	^{240}U(14.1 h)	44.10, 189.7, 66.5
169.26 *4*	0.44 *3*	^{137}Ce(34.4 h)	824.82, 762.3, 835.38
170.504 *20*	6.8 *4*	^{153}Tb(2.34 d)	212.038, 109.758, 102.263
171.28 *3*	90	^{111}In(2.8049 d)	245.422, 150.824
171.393 *13*	2.90 *11*	^{173}Lu(1.37 y)	272.105, 78.63, 100.724
172.132 *10*	25.5 *8*	^{127}Xe(36.4 d)	202.860, 374.991, 145.252
172.5708 *22*	0.20 *4*	^{182}Hf(9×10^{6} y)	270.4031, 156.088, 114.3152
172.6 *2*	†49	^{256}Es(7.6 h)	861.8, 231.1, 1092.9
173.52 *5*	2.9	^{193}Au(17.65 h)	186.17, 255.57, 268.22
174.70 *1*	2.96 *6*	^{151}Gd(124 d)	153.56, 243.28, 21.531
174.94 *4*	10	^{245}Cm(8500 y)	132.99, 41.95, 189.82
174.954 *5*	82.00 *25*	^{71}As(65.28 h)	1095.490, 499.876, 326.785
175.361 *5*	7.48 *9*	^{48}Sc(43.67 h)	1312.096, 983.517, 1037.599
176.6 *1*	17.7 *15*	^{251}Cf(898 y)	227.0, 285.0, 61.5
176.645 *2*	0.470 *11*	^{174}Lu(142 d)	272.918, 992.128, 76.471
177.21402 *6*	22.16 *18*	^{169}Yb(32.026 d)	63.12077, 197.95788, 109.77987
177.30 *10*	0.056 *6*	^{254}Es(39.3 h)	211.80, 71.30, 104.0
177.7 *2*	2.4	^{251}Es(33 h)	152.8, 163.8, 34.0
179.4 *1*	8.7 *7*	^{257}Fm(100.5 d)	241.0, 61.6, 104.4
179.62 *4*	†0.58 *6*	^{101}Rh(4.34 d)	306.85, 545.06, 127.23
179.94 *2*	9.7 *5*	^{246}Pu(10.84 d)	43.81, 223.75, 27.58
180.103 *1*	7.45 *15*	^{155}Tb(5.32 d)	86.545, 105.305, 262.322
180.11 *4*	1.90 *9*	^{195}Hg(9.9 h)	779.80, 61.46, 585.13
180.230 *11*	33.5 *16*	^{182}Os(22.10 h)	510.056, 263.285, 55.506
181.0 *2*	13.8 *13*	^{184}Hf(4.12 h)	139.1, 344.9, 41.4
181.063 *8*	6.08 *9*	^{99}Mo(65.94 h)	739.50, 140.511, 777.921
181.3 *5*	0.41 *11*	^{257}Md(5.52 h)	371.4, 325.1, 388.5
181.528 *4*	20.6 *4*	^{172}Lu(6.70 d)	1093.657, 900.724, 810.064
181.930 *4*	9.9 *3*	^{158}Tb(180 y)	944.09, 962.06, 79.5104
182.20 *20*	1.84 *18*	^{157}Dy(8.14 h)	326.16, 83.01, 60.82
184.285 *1*	17.45 *16*	^{168}Tm(93.1 d)	198.241, 815.990, 447.515
184.410 *6*	72.6 *7*	^{166}Ho(1.20×10^{3} y)	810.276, 711.683, 280.459
184.410 *6*	16.1 *3*	^{166}Tm(7.70 h)	778.817, 2052.36, 1273.540
184.564 *4*	3.37 *6*	^{155}Dy(9.9 h)	226.918, 1089.8, 1090.0
184.577 *10*	48.7 *3*	^{67}Cu(61.83 h)	93.311, 91.266, 300.219
184.577 *10*	21.2 *3*	^{67}Ga(3.2612 d)	93.311, 300.219, 393.529
184.810 *25*	0.0042 *11*	^{154}Eu(8.593 y)	81.99
185.712 *1*	57.2 *5*	^{235}U(7.038×10^{8} y)	143.764, 163.358, 205.309
185.85 *3*	1.89 *4*	^{189}Re(24.3 h)	216.663, 219.395, 245.09
186.05 *1*	4.8 *3*	^{226}Ac(29 h)	253.73, 67.67
186.05 *1*	0.0088 *4*	^{230}Th(7.538×10^{4} y)	67.67, 143.87, 253.73
186.10 *10*	3.50 *5*	^{226}Ra(1600 y)	262.27, 600.66, 414.60
186.17 *3*	10.1 *6*	^{193}Au(17.65 h)	255.57, 268.22, 173.52
186.4 *3*	3.3 *6*	^{192}Hg(4.85 h)	274.8, 157.2, 306.5
186.718 *2*	52.4 *21*	^{190}Ir(11.78 d)	605.24, 518.55, 557.972
187.1 *5*	0.060 *15*	^{243}Bk(4.5 h)	536, 146.4, 41
187.59 *10*	19.4 *10*	^{188}Pt(10.2 d)	195.05, 381.43, 423.34
188.00 *5*	0.54 *3*	^{225}Ac(10.0 d)	99.91, 150.04, 99.63
188.418 *4*	54	^{125}Xe(16.9 h)	243.378, 54.968, 453.796
189.7 *1*	0.24 *1*	^{240}U(14.1 h)	44.10, 66.5, 169.2
189.82 *6*	0.193 *12*	^{245}Cm(8500 y)	174.94, 132.99, 41.95
190.38 *6*	64.0 *14*	^{81}Rb(4.576 h)	446.15, 510.31, 456.76
191.2137 *15*	20.6 *5*	^{169}Lu(34.06 h)	960.622, 1449.74, 889.753
191.437 *10*	3.7	^{197}Pt(18.3 h)	77.351, 268.78
191.437 *10*	0.608 *20*	^{197}Hg(64.14 h)	77.351, 268.78
191.96 *9*	9.37 *17*	^{72}Zn(46.5 h)	145.04, 16.4, 103.14
192.349 *5*	3.08 *10*	^{59}Fe(44.503 d)	1099.251, 1291.596, 142.652
193.509 *4*	4.4	^{229}Th(7340 y)	210.853, 86.40, 86.25
195.0 *1*	22.6 *10*	^{209}At(5.41 h)	545.0, 781.9, 790.2
195.05 *10*	18.6 *10*	^{188}Pt(10.2 d)	187.59, 381.43, 423.34
197.299 *12*	3.4×10^{-7} *6*	^{147}Pm(2.6234 y)	121.220, 76.073
197.299 *12*	27	^{147}Eu(24.1 d)	121.220, 677.516, 1077.043
197.3 *3*	87.0 *11*	^{120}Sb(5.76 d)	1171.3, 1023.1, 89.9
197.6 *2*	70.8 *15*	^{101}Rh(3.3 y)	127.23, 324.8, 295.0
197.95788 *6*	35.8 *3*	^{169}Yb(32.026 d)	63.12077, 177.21402, 109.77987
198.241 *1*	52.39 *16*	^{168}Tm(93.1 d)	815.990, 447.515, 184.285
199.2132 *10*	40.9 *22*	^{156}Tb(5.35 d)	534.318, 1222.36, 88.9667
199.50 *5*	0.53 *3*	^{138}Nd(5.04 h)	325.76, 341.65, 215.31
200.38 *4*	0.79 *8*	^{195}Hg(41.6 h)	261.75, 560.27, 387.87
201.3112 *7*	0.472 *6*	^{192}Ir(73.831 d)	205.79549, 484.5780, 374.4852
201.6 *3*	†0.073 *11*	^{197}Hg(23.8 h)	279.01, 130.2, 77.351
201.83 *3*	86 *5*	^{176}Lu(3.78×10^{10} y)	306.78, 88.34, 400.99
201.83 *3*	6	^{176}Ta(8.09 h)	1159.28, 88.34, 1224.93
202.860 *10*	0.0580 *21*	^{127}Te(9.35 h)	417.95, 360.32, 215.17
202.860 *10*	68	^{127}Xe(36.4 d)	172.132, 374.991, 145.252
203.13 *10*	6.4 *5*	^{90}Mo(5.67 h)	257.34, 122.370, 323.20
203.5 *2*	74	^{109}In(4.2 h)	623.7, 1148.9, 426.25
203.818 *3*	20.6 *20*	^{156}Sm(9.4 h)	87.4897, 165.8452, 37.9681
204.117 *2*	†2.33 *7*	^{95}Nb(86.6 h)	582.082, 786.198, 820.624
204.117 *2*	0.028 *9*	^{95}Nb(34.975 d)	765.794, 561.67
204.117 *2*	63.25 *13*	^{95}Tc(61 d)	582.082, 835.149, 786.198
205.309 *2*	5.01 *5*	^{235}U(7.038×10^{8} y)	185.712, 143.764, 163.358
205.79549 *6*	3.300 *17*	^{192}Ir(73.831 d)	484.5780, 374.4852, 201.3112
205.879 *13*	0.040 *6*	^{245}Bk(4.94 d)	471.805, 164.8, 430.634
207.4 *3*	14.0 *8*	^{175}Ta(10.5 h)	348.5, 266.9, 81.5
207.801 *5*	41 *6*	^{167}Tm(9.25 d)	57.0723, 531.54, 264.9
207.849 *5*	0.0080 *16*	^{188}W(69.4 d)	290.669, 227.083, 63.582
208.00 *1*	21.14 *23*	^{237}U(6.75 d)	59.537, 26.345, 164.61
208.20597 *11*	8.732 *12*	^{199}Au(3.139 d)	158.37947, 49.82680
208.20597 *11*	12.3 *6*	^{199}Tl(7.42 h)	455.46, 247.26, 158.37947
208.3664 *5*	11.0 *6*	^{177}Lu(6.734 d)	112.9498, 321.3162, 249.6741
208.3664 *5*	57.7 *11*	^{177}Lu(160.4 d)	228.4838, 378.5029, 418.5391
208.3664 *5*	0.94 *8*	^{177}Ta(56.56 h)	112.9498, 1057.8, 745.9
208.8057 *6*	2.95 *5*	^{183}Re(70.0 d)	162.3219, 46.4839, 291.7238
209.753 *2*	3.42 *5*	^{239}Np(2.3565 d)	106.125, 277.599, 228.183
209.753 *2*	3.50 *20*	^{239}Am(11.9 h)	277.599, 228.183, 226.378
209.753 *2*	3.29 *10*	^{243}Cm(29.1 y)	277.599, 228.183, 285.460
210.853 *3*	2.8 *3*	^{229}Th(7340 y)	193.509, 86.40, 86.25
211.03 *3*	30.8 *9*	^{77}Ge(11.30 h)	264.44, 215.50, 416.33
211.407 *2*	0.0109 *11*	^{195}Au(186.09 d)	98.85, 129.70, 30.898
211.80 *10*	0.096 *10*	^{254}Es(39.3 h)	177.30, 71.30, 104.0
212.038 *15*	31.0 *16*	^{153}Tb(2.34 d)	170.504, 109.758, 102.263
212.46 *5*	0.000029 *3*	^{240}Pu(6563 y)	45.242, 104.234, 160.308
213.754 *5*	10.90 *22*	^{153}Dy(6.4 h)	80.723, 99.659, 254.259
214.335 *3*	11.3 *11*	^{179}Lu(4.59 h)	214.930, 123.3790, 337.713
214.930 *3*	0.46 *16*	^{179}Lu(4.59 h)	214.335, 123.3790, 337.713
215.17 *13*	0.0387 *17*	^{127}Te(9.35 h)	417.95, 360.32, 202.860

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
215.31 *6*	0.28 *3*	^{138}Nd(5.04 h)	325.76, 199.50, 341.65
215.50 *3*	28.6 *9*	^{77}Ge(11.30 h)	264.44, 211.03, 416.33
215.718 *24*	86	^{97}Ru(2.9 d)	324.48, 569.31, 460.57
215.985 *5*	0.263 *3*	^{228}Th(1.9131 y)	84.373, 131.613, 166.411
216.078 *8*	19.66 *23*	^{131}Ba(11.50 d)	496.326, 123.805, 373.246
216.548 *9*	9.43 *20*	^{184}Re(169 d)	252.848, 920.932, 161.269
216.663 *24*	5.50 *14*	^{189}Re(24.3 h)	219.395, 245.09, 185.85
217.6 *3*	†88	^{244}Bk(4.35 h)	891.5, 921.5, 490.5
217.940 *18*	0.8	^{231}U(4.2 d)	25.646, 84.216, 58.570
218.21 *1*	0.933 *18*	^{158}Tb(180 y)	98.91
219.395 *21*	4.54 *10*	^{189}Re(24.3 h)	216.663, 245.09, 185.85
220.94 *2*	0.0541 *6*	^{135}La(19.5 h)	480.51, 874.51, 587.83
223.75 *2*	23.5 *18*	^{246}Pu(10.84 d)	43.81, 179.94, 27.58
226.01 *4*	0.215 *5*	^{159}Gd(18.479 h)	363.55, 58.00, 348.16
226.378 *8*	3.30 *20*	^{239}Am(11.9 h)	277.599, 228.183, 209.753
226.918 *4*	68.4 *12*	^{155}Dy(9.9 h)	184.564, 1089.8, 1090.0
227.0 *10*	6.3 *11*	^{251}Cf(898 y)	176.6, 285.0, 61.5
227.083 *7*	0.221 *8*	^{188}W(69.4 d)	290.669, 63.582, 207.849
228		^{202}Pt(44 h)	244
228.16 *6*	88.0 *18*	^{132}Te(3.204 d)	49.72, 116.30, 111.76
228.183 *1*	10.76 *18*	^{239}Np(2.3565 d)	106.125, 277.599, 209.753
228.183 *1*	11.3 *6*	^{239}Am(11.9 h)	277.599, 209.753, 226.378
228.183 *1*	10.6 *3*	^{243}Cm(29.1 y)	277.599, 209.753, 285.460
228.4838 *6*	37.0 *7*	^{177}Lu(160.4 d)	208.3664, 378.5029, 418.5391
228.56 *20*	0.000333 *14*	^{237}Pu(45.2 d)	280.40, 298.89, 320.75
229.32 *2*	63 *3*	^{147}Gd(38.06 h)	396.00, 929.01, 370.0
229.3220 *6*	26	^{182}Re(64.0 h)	67.75001, 1121.3007, 1221.4066
229.50 *6*	0.106 *9*	^{128}Ba(2.43 d)	273.44, 374.99, 359.10
229.6 *6*	0.683 *17*	^{175}Hf(70 d)	343.40, 89.36, 433.0
230.37 *5*	27	^{226}Ac(29 h)	158.18, 72.20, 574.8
230.37 *5*	0.122 *6*	^{230}U(20.8 d)	72.20, 154.23, 158.18
231.1 *2*	†61	^{256}Es(7.6 h)	861.8, 172.6, 1092.9
231.67 *1*	22.8 *14*	^{85}Y(4.86 h)	2123.8, 767.40, 535.61
232.72 *12*	8.5×10^{-6} *15*	^{99}Tc(6.01 h)	322.41, 89.65
233.6 *3*		^{255}Es(39.8 d)	269.1, 35.7
235.63 *2*	4.30 *13*	^{200}Pb(21.5 h)	147.63, 257.17, 268.38
235.69 *2*	0.294 *16*	^{95}Zr(64.02 d)	756.729, 724.199
235.971 *20*	†12.3 *9*	^{227}Th(18.72 d)	50.13, 256.25, 329.851
236.48 *1*	0.063 *9*	^{211}Rn(14.6 h)	68.573, 167.90
238.632 *2*	43.3 *4*	^{212}Pb(10.64 h)	300.087, 115.183, 415.2
238.996 *3*	1.6	^{77}As(38.83 h)	520.639, 249.786, 87.8671
238.996 *3*	23	^{77}Br(57.036 h)	520.639, 297.215, 249.786
240	†23	^{228}Pa(22 h)	95, 310, 280
240.987 *6*	3.97 *4*	^{224}Ra(3.66 d)	292.70, 645.50, 422.04
241.0 *1*	11.0 *6*	^{257}Fm(100.5 d)	179.4, 61.6, 104.4
242.80 *10*	96	^{86}Zr(16.5 h)	29.10, 612.00, 135.6
242.917 *7*	35.5 *7*	^{165}Tm(30.06 h)	47.155, 297.369, 806.372
243.28 *5*	5.60 *3*	^{151}Gd(124 d)	153.56, 174.70, 21.531
243.37 *6*	7.0 *10*	^{189}Pt(10.87 h)	721.41, 94.33, 568.84
243.378 *5*	30.1 *6*	^{125}Xe(16.9 h)	188.418, 54.968, 453.796
243.71 *3*	2.49 *16*	^{200}Pt(12.5 h)	76.21, 135.90, 59.97
244		^{202}Pt(44 h)	228
245.09 *3*	3.5 *4*	^{189}Re(24.3 h)	216.663, 219.395, 185.85
245.09 *3*	6	^{189}Ir(13.2 d)	69.537, 59.053, 36.202
245.31 *1*	79 *4*	^{210}At(8.1 h)	1181.39, 1483.39, 1436.70
245.422 *6*	1.24 *7*	^{111}Ag(7.45 d)	342.118, 96.73, 620.3
245.422 *6*	94	^{111}In(2.8049 d)	171.28, 150.824
246.0591 *5*	27 *4*	^{183}Ta(5.1 d)	353.9912, 107.9322, 161.3467
247.26 *3*	9.3 *5*	^{199}Tl(7.42 h)	455.46, 208.20597, 158.37947
247.925 *6*	22.1 *20*	^{154}Tb(9.4 h)	123.071, 540.18, 649.564
247.925 *6*	79 *9*	^{154}Tb(22.7 h)	346.643, 1419.81, 123.071
249.6741 *10*	0.212 *11*	^{177}Lu(6.734 d)	208.3664, 112.9498, 321.3162
249.770 *4*	90	^{135}Xe(9.14 h)	608.151, 408.009, 158.260
249.786 *3*	0.394 *16*	^{77}As(38.83 h)	238.996, 520.639, 87.8671
249.786 *3*	2.98 *7*	^{77}Br(57.036 h)	238.996, 520.639, 297.215
251.863 *10*	26.3 *9*	^{151}Tb(17.609 h)	287.357, 108.088, 587.46
252.4 *3*	8.5 *3*	^{127}Sb(3.85 d)	685.7, 473.0, 783.7
252.80 *2*	29.1 *19*	^{245}Bk(4.94 d)	380.8, 385.0, 103.1
252.80 *2*	2.50 *8*	^{249}Cf(351 y)	388.16, 333.37, 266.62
252.848 *5*	43 *3*	^{184}Ta(8.7 h)	414.03, 920.932, 111.208
252.848 *5*	10.7 *3*	^{184}Re(169 d)	216.548, 920.932, 161.269
253.68 *1*	99 *6*	^{118}Sb(5.00 h)	1229.68, 1050.69, 41.0
253.73 *1*	5.7 *4*	^{226}Ac(29 h)	186.05, 67.67
253.73 *1*	0.0111 *5*	^{230}Th(7.538×10^4 y)	67.67, 143.87, 186.05
254.259 *17*	8.58 *22*	^{153}Dy(6.4 h)	80.723, 213.754, 99.659
254.4 *2*	13.3 *13*	^{185}Ir(14.4 h)	1828.8, 60.0, 97.4
254.566 *23*	0.636 *12*	^{149}Eu(93.1 d)	327.526, 277.089, 22.510
255.06 *5*	1.82 *6*	^{113}Sn(115.09 d)	391.690, 638.03, 382.6
255.11 *2*	0.236 *7*	^{139}Pr(4.41 h)	1347.33, 1630.67, 1375.56
255.57 *4*	6.7 *6*	^{193}Au(17.65 h)	186.17, 268.22, 173.52
255.87 *8*	†71 *5*	^{200}Au(18.7 h)	497.77, 367.943, 579.298
256.25 *2*	†7.0 *4*	^{227}Th(18.72 d)	235.971, 50.13, 329.851
257.17 *2*	4.46 *13*	^{200}Pb(21.5 h)	147.63, 235.63, 268.38
257.34 *4*	78 *3*	^{90}Mo(5.67 h)	122.370, 203.13, 323.20
257.97 *5*	61 *6*	^{193}Hg(11.8 h)	407.63, 573.25, 932.37
258.8 *1*	1.64 *3*	^{113}Ag(5.37 h)	298.58, 316.3, 672.3
260.48 *3*	0.7	^{209}Po(102 y)	262.81
260.890 *30*	1.94 *1*	^{115}Cd(53.46 h)	336.240, 527.900, 492.3
261.29 *10*	13	^{79}Kr(35.04 h)	397.54, 606.09, 306.47
261.75 *4*	30.9 *25*	^{195}Hg(41.6 h)	560.27, 387.87, 200.38
262.27 *5*	0.0049 *5*	^{226}Ra(1600 y)	186.10, 600.66, 414.60
262.322 *2*	5.29 *5*	^{155}Tb(5.32 d)	86.545, 105.305, 180.103
262.81 *3*	0.225 *11*	^{209}Po(102 y)	260.48
263.285 *10*	6.71 *21*	^{182}Os(22.10 h)	510.056, 180.230, 55.506
264.44 *3*	54	^{77}Ge(11.30 h)	211.03, 215.50, 416.33
264.6584 *19*	58.50 *23*	^{75}Se(119.779 d)	136.0008, 279.5441, 121.1166
264.9	>0.07	^{167}Tm(9.25 d)	207.801, 57.0723, 531.54
265 *10*	30	^{247}Bk(1380 y)	84.0
265.56 *2*	41.8 *13*	^{135}Ce(17.7 h)	300.07, 606.76, 518.05
265.832 *5*		^{210}Bi(5.013 d)	304.896
265.832 *5*	50	^{210}Bi(3.04×10^6 y)	304.896, 649.42, 344.52
266.62 *2*	0.69 *3*	^{249}Cf(351 y)	388.16, 333.37, 252.80
266.9 *1*	7.3 *4*	^{93}Y(10.18 h)	947.1, 1917.8, 680.2
266.9 *4*	10.8 *13*	^{175}Ta(10.5 h)	207.4, 348.5, 81.5
268.22 *5*	3.9 *3*	^{193}Au(17.65 h)	186.17, 255.57, 173.52
268.38 *2*	3.96 *17*	^{200}Pb(21.5 h)	147.63, 257.17, 235.63
268.78 *5*	0.231 *22*	^{197}Pt(18.3 h)	77.351, 191.437
268.78 *5*	0.0378 *18*	^{197}Hg(64.14 h)	77.351, 191.437
269.1		^{255}Es(39.8 d)	233.6, 35.7
269.459 *10*	13.7 *3*	^{223}Ra(11.435 d)	154.21, 323.871, 144.232
269.50 *2*	†36.5 *8*	^{56}Ni(5.9 d)	158.38, 811.85, 749.95
269.67 *7*	6.43 *12*	^{101}Pd(8.47 h)	296.29, 590.44, 24.46
270.2 *2*	21.1 *23*	^{76}Kr(14.8 h)	315.7, 45.48, 406.5
270.243 *4*	0.00316 *5*	^{232}U(68.9 y)	57.762, 129.065, 327.995
270.4031 *20*	80 *5*	^{182}Hf(9×10^6 y)	156.088, 114.3152, 172.5708
270.53 *4*	28.0 *4*	^{119}Te(4.70 d)	153.59, 1212.73, 1136.75
271.135 *8*	0.076 *3*	^{152}Eu(9.274 h)	344.281, 1314.67, 970.38
271.135 *8*	†86 *6*	^{152}Tb(17.5 h)	344.281, 586.294, 778.91
271.8 *4*	2.6	^{253}Fm(3.00 d)	144.99, 62.47, 405
272.105 *15*	21.2 *3*	^{173}Lu(1.37 y)	78.63, 100.724, 171.393
272.918 *6*	0.550 *17*	^{174}Lu(142 d)	992.128, 176.645, 76.471
273.44 *1*	15	^{128}Ba(2.43 d)	374.99, 229.50, 359.10
274.8 *3*	50.4 *20*	^{192}Hg(4.85 h)	157.2, 306.5, 186.4
275.21 *2*	6.8 *5*	^{151}Pm(28.40 h)	340.08, 167.75, 717.72
275.988 *12*	0.30	^{81}Kr(2.29×10^5 y)	
276.8 *1*	†20.2 *19*	^{258}Md(51.5 d)	367.8, 447.9, 71.1
277.089 *10*	3.56 *6*	^{149}Eu(93.1 d)	327.526, 22.510, 254.566
277.599 *1*	14.38 *21*	^{239}Np(2.3565 d)	106.125, 228.183, 209.753
277.599 *1*	15.0 *7*	^{239}Am(11.9 h)	228.183, 209.753, 226.378
277.599 *1*	14.0 *4*	^{243}Cm(29.1 y)	228.183, 209.753, 285.460
278.0 *8*	3.4 *7*	^{247}Cm(1.56×10^7 y)	402.6, 287.4, 344.5
279.01 *5*	†5.0	^{197}Hg(23.8 h)	130.2, 201.6, 77.351
279.1967 *12*	81	^{203}Hg(46.612 d)	
279.1967 *12*	81	^{203}Pb(51.873 h)	401.323, 680.516
279.5441 *13*	24.79 *11*	^{75}Se(119.779 d)	264.6584, 136.0008, 121.1166
280	†20	^{228}Pa(22 h)	95, 310, 240
280.40 *20*	0.000920 *18*	^{237}Pu(45.2 d)	298.89, 320.75, 228.56
280.41 *6*	0.167 *13*	^{105}Rh(35.36 h)	319.14, 306.25, 442.37
280.41 *6*	30.2 *17*	^{105}Ag(41.29 d)	344.520, 644.55, 443.37
280.459 *8*	29.77 *22*	^{166}Ho(1.20×10^3 y)	184.410, 810.276, 711.683
280.462 *9*		^{110}Sn(4.11 h)	
282.522 *14*	3.01 *5*	^{175}Yb(4.185 d)	396.329, 113.805, 144.863
283.69 *1*	1.7	^{231}Pa(32760 y)	27.36, 300.07, 302.65
284.305 *5*	6.14 *5*	^{131}I(8.02070 d)	364.489, 636.989, 80.185
285.0 *2*	1.4 *3*	^{251}Cf(898 y)	176.6, 227.0, 61.5
285.460 *2*	0.728 *20*	^{243}Cm(29.1 y)	277.599, 228.183, 209.753
285.95 *1*	3.1	^{149}Pm(53.08 h)	859.46, 590.88, 22.510
286.410 *26*	23.8 *5*	^{206}Po(8.8 d)	1032.26, 511.36, 807.38
287.357 *10*	28.3 *9*	^{151}Tb(17.609 h)	251.863, 108.088, 587.46
287.4 *3*	2.0 *3*	^{247}Cm(1.56×10^7 y)	402.6, 278.0, 344.5
290.27 *17*	0.00014 *5*	^{159}Dy(144.4 d)	58.00, 348.16, 79.45
290.669 *13*	0.402 *12*	^{188}W(69.4 d)	227.083, 63.582, 207.849
291.7 *1*	†0.0011	^{208}Po(2.898 y)	570.4, 601.6, 861.9
291.7238 *5*	3.05 *16*	^{183}Re(70.0 d)	162.3219, 46.4839, 208.8057
292.70 *10*	0.0060 *7*	^{224}Ra(3.66 d)	240.987, 645.50, 422.04
293.266 *2*	42.80 *13*	^{143}Ce(33.039 h)	57.356, 664.571, 721.929

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
293.545 *13*	2.55 *10*	^{194}Ir(19.15 h)	328.455, 645.157, 938.70
293.545 *13*	10.2 *5*	^{194}Au(38.02 h)	328.455, 1468.91, 2043.67
294.978 *20*	0.00280 *7*	^{103}Pd(16.991 d)	39.757, 357.47, 497.080
295.0 *3*	0.73 *22*	^{101}Rh(3.3 y)	127.23, 197.6, 324.8
295.901 *13*	28.9 *8*	^{171}Er(7.516 h)	308.31, 111.621, 124.015
295.95827 *12*	28.67 *9*	^{192}Ir(73.831 d)	316.50791, 468.07152, 308.45692
295.95827 *12*	22.3 *3*	^{192}Au(4.94 h)	316.50791, 2236.89, 612.46564
296.29 *3*	19	^{101}Pd(8.47 h)	590.44, 269.67, 24.46
296.911 *14*	64.0 *15*	^{186}Ir(16.64 h)	137.155, 434.849, 773.276
296.974 *9*	33.9 *7*	^{173}Hf(23.6 h)	123.672, 139.634, 311.239
297.215 *4*	4.16 *18*	^{77}Br(57.036 h)	238.996, 520.639, 249.786
297.32 *5*	79.8 *16*	^{73}Ga(4.86 h)	325.70, 739.42, 767.8
297.369 *6*	12.71 *25*	^{165}Tm(30.06 h)	242.917, 47.155, 806.372
298.58 *2*	10	^{113}Ag(5.37 h)	258.8, 316.3, 672.3
298.580 *2*	25.51 *12*	^{160}Tb(72.3 d)	879.383, 966.171, 1177.962
298.634 *5*	28.6 *7*	^{149}Gd(9.28 d)	149.735, 346.651, 748.601
298.89 *20*	0.000664 *17*	^{237}Pu(45.2 d)	280.40, 320.75, 228.56
300.07 *2*	23.5 *3*	^{135}Ce(17.7 h)	265.56, 606.76, 518.05
300.07 *1*	2.46 *7*	^{231}Pa(32760 y)	27.36, 302.65, 283.69
300.087 *10*	3.28 *3*	^{212}Pb(10.64 h)	238.632, 115.183, 415.2
300.219 *10*	0.797 *11*	^{67}Cu(61.83 h)	184.577, 93.311, 91.266
300.219 *10*	16.80 *22*	^{67}Ga(3.2612 d)	93.311, 184.577, 393.529
300.34 *2*	6.62 *6*	^{233}Pa(26.967 d)	312.17, 340.81, 86.814
300.884 *15*	†0.088 *7*	^{134}Ce(75.9 h)	162.306, 130.414, 39.08
302.65 *1*	2.2 *3*	^{231}Pa(32760 y)	27.36, 300.07, 283.69
302.853 *1*	0.0048 *3*	^{133}Xe(5.243 d)	80.997, 79.623, 160.613
302.853 *1*	18.33 *6*	^{133}Ba(10.52 y)	356.017, 80.997, 383.851
303.41 *3*	21.6 *11*	^{250}Es(8.6 h)	828.82, 349.4, 383.7
304 *2*	0.07 *1*	^{254}Es(275.7 d)	63.0, 316, 385
304.849 *3*	4.30 *5*	^{140}Ba(12.752 d)	537.261, 29.9640, 162.660
304.896 *6*		^{210}Bi(5.013 d)	265.832
304.896 *6*	28	^{210}Bi(3.04×10^6 y)	265.832, 649.42, 344.52
306.25 *3*	5.1 *3*	^{105}Rh(35.36 h)	319.14, 280.41, 442.37
306.47 *10*	2.6 *1*	^{79}Kr(35.04 h)	261.29, 397.54, 606.09
306.5 *3*	5.4 *6*	^{192}Hg(4.85 h)	274.8, 157.2, 186.4
306.78 *4*	94	^{176}Lu(3.78×10^{10} y)	201.83, 88.34, 400.99
306.85 *5*	†87 *4*	^{101}Rh(4.34 d)	545.06, 127.23, 179.62
308.222 *8*	4.9 *5*	^{245}Pu(10.5 h)	327.428, 560.13, 376.676
308.222 *8*	†3.2×10^{-6} *9*	^{249}Bk(320 d)	327.428
308.25 *5*	100	^{48}Cr(21.56 h)	112.36, 420.5
308.31 *3*	64.4 *16*	^{171}Er(7.516 h)	295.901, 111.621, 124.015
308.45692 *13*	30.00 *8*	^{192}Ir(73.831 d)	316.50791, 468.07152, 295.95827
310	†42	^{228}Pa(22 h)	95, 240, 280
311.239 *8*	10.75 *20*	^{173}Hf(23.6 h)	123.672, 296.974, 139.634
311.4 *1*	0.032 *3*	^{109}Pd(13.7012 h)	88.04, 647.3, 781.4
312.17 *2*	38.6 *4*	^{233}Pa(26.967 d)	300.34, 340.81, 86.814
312.6	0.336 *20*	^{42}K(12.360 h)	1524.70, 899.43, 1922.18
314.12 *2*	61 *3*	^{128}Sb(9.01 h)	753.82, 743.22, 526.57
314.8 *3*	0.094 *12*	^{230}Pa(17.4 d)	366.56, 383.6, 51.72
315.7 *2*	39 *4*	^{76}Kr(14.8 h)	270.2, 45.48, 406.5
316 *2*	0.15 *2*	^{254}Es(275.7 d)	63.0, 304, 385
316.3 *1*	1.343 *20*	^{113}Ag(5.37 h)	298.58, 258.8, 672.3
316.44 *15*	11.1 *4*	^{105}Ru(4.44 h)	724.21, 469.37, 676.36
316.50791 *13*	82.81 *21*	^{192}Ir(73.831 d)	468.07152, 308.45692, 295.95827
316.50791 *13*	58.0 *8*	^{192}Au(4.94 h)	295.95827, 2236.89, 612.46564
319.14 *6*	19	^{105}Rh(35.36 h)	306.25, 280.41, 442.37
319.411 *18*	1.95 *11*	^{147}Nd(10.98 d)	91.105, 531.016, 439.895
320.0842 *9*	10	^{51}Cr(27.702 d)	
320.75 *20*	0.000548 *17*	^{237}Pu(45.2 d)	280.40, 298.89, 228.56
321.3162 *16*	0.219 *11*	^{177}Lu(6.734 d)	208.3664, 112.9498, 249.6741
322.41 *8*	0.000097 *5*	^{99}Tc(6.01 h)	232.72, 89.65
322.41 *8*	5.4 *3*	^{99}Rh(16.1 d)	528.24, 353.05, 89.65
323.20 *18*	6.3 *5*	^{90}Mo(5.67 h)	257.34, 122.370, 203.13
323.871 *10*	3.93 *7*	^{223}Ra(11.435 d)	269.459, 154.21, 144.232
324.48 *3*	10.79 *17*	^{97}Ru(2.9 d)	215.718, 569.31, 460.57
324.8 *2*	13.4 *11*	^{101}Rh(3.3 y)	127.23, 197.6, 295.0
324.81 *3*	0.0314 *15*	^{107}Cd(6.50 h)	93.124, 828.93, 796.462
325.1 *2*	2.5 *3*	^{257}Md(5.52 h)	371.4, 181.3, 388.5
325.70 *7*	11.17 *24*	^{73}Ga(4.86 h)	297.32, 739.42, 767.8
325.76 *5*	2.84 *7*	^{138}Nd(5.04 h)	199.50, 341.65, 215.31
326.16 *20*	92	^{157}Dy(8.14 h)	182.20, 83.01, 60.82
326.785 *15*	3.034 *25*	^{71}As(65.28 h)	174.954, 1095.490, 499.876
327.428 *8*	25.4 *25*	^{245}Pu(10.5 h)	560.13, 308.222, 376.676
327.428 *8*	†0.00001 *73*	^{249}Bk(320 d)	308.222
327.526 *10*	4.03 *12*	^{149}Eu(93.1 d)	277.089, 22.510, 254.566
327.995 *2*	0.00282 *5*	^{232}U(68.9 y)	57.762, 129.065, 270.243
328.455 *11*	13.1 *4*	^{194}Ir(19.15 h)	293.545, 645.157, 938.70
328.455 *11*	93 *5*	^{194}Ir(171 d)	482.833, 600.5, 687.7
328.455 *11*	60 *3*	^{194}Au(38.02 h)	293.545, 1468.91, 2043.67
328.762 *8*	20.3 *3*	^{140}La(1.6781 d)	1596.210, 487.021, 815.772
329.851 *20*	†2.7 *3*	^{227}Th(18.72 d)	235.971, 50.13, 256.25
331.19 *3*	79 *5*	^{201}Pb(9.33 h)	361.27, 945.96, 907.56
332.983 *24*	22.9 *5*	^{196}Au(6.183 d)	355.684, 521.175, 1091.331
333.37 *2*	14.6 *4*	^{249}Cf(351 y)	388.16, 252.80, 266.62
333.4 *4*	0.000058 *16*	^{186}Re(90.64 h)	137.155, 767.508, 630.354
333.971 *12*	4.0 *3*	^{150}Eu(12.8 h)	406.52, 1165.739, 921.17
333.971 *12*	96	^{150}Eu(35.8 y)	439.401, 584.274, 737.455
336.240 *12*	45.9 *1*	^{115}Cd(53.46 h)	527.900, 492.3, 260.890
337.713 *5*	0.181 *19*	^{179}Lu(4.59 h)	214.335, 214.930, 123.3790
338.322 *2*	11.3 *3*	^{228}Ac(6.15 h)	911.205, 968.971, 964.770
340.08 *1*	23	^{151}Pm(28.40 h)	167.75, 275.21, 717.72
340.547 *8*	†42.3 *13*	^{136}Cs(13.16 d)	818.514, 1048.073, 1235.362
340.71 *13*	70 *3*	^{99}Rh(4.7 h)	617.8, 1261.2, 936.7
340.81 *3*	4.47 *4*	^{233}Pa(26.967 d)	312.17, 300.34, 86.814
341.65 *5*	0.40 *4*	^{138}Nd(5.04 h)	325.76, 199.50, 215.31
342.118 *7*	7	^{111}Ag(7.45 d)	245.422, 96.73, 620.3
343.40 *8*	84	^{175}Hf(70 d)	89.36, 433.0, 229.6
344.281 *2*	2.44 *3*	^{152}Eu(9.274 h)	1314.67, 970.38, 271.135
344.281 *2*	26.58 *19*	^{152}Eu(13.542 y)	778.91, 411.115, 1089.700
344.281 *2*	†	^{152}Tb(17.5 h)	586.294, 271.135, 778.91
344.5 *5*	1.3	^{247}Cm(1.56×10^7 y)	402.6, 278.0, 287.4
344.520 *21*	41	^{105}Ag(41.29 d)	280.41, 644.55, 443.37
344.52 *17*	0.7	^{210}Bi(3.04×10^6 y)	265.832, 304.896, 649.42
344.9 *2*	35.2 *14*	^{184}Hf(4.12 h)	139.1, 181.0, 41.4
344.95 *20*	0.0030 *3*	^{65}Zn(244.26 d)	1115.546, 770.6
345.916 *25*	15.12 *10*	^{181}Hf(42.39 d)	482.182, 133.024, 136.266
346.643 *5*	69 *5*	^{154}Tb(22.7 h)	247.925, 1419.81, 123.071
346.651 *3*	23.9 *3*	^{149}Gd(9.28 d)	149.735, 298.634, 748.601
346.93 *7*	0.0076 *5*	^{60}Co(5.2714 y)	1332.501, 1173.237, 826.06
347.18 *10*	†47 *6*	^{171}Hf(12.1 h)	122.0, 662.2, 1071.8
348.16 *7*	0.234 *5*	^{159}Gd(18.479 h)	363.55, 58.00, 226.01
348.16 *7*	0.00095 *10*	^{159}Dy(144.4 d)	58.00, 79.45, 290.27
348.5 *5*	12.0 *6*	^{175}Ta(10.5 h)	207.4, 266.9, 81.5
349.4 *1*	19.8 *9*	^{250}Es(8.6 h)	828.82, 303.41, 383.7
349.9 *1*	0.82 *4*	^{251}Fm(5.30 h)	880.8, 453.1, 405.6
350.065 *10*	7.80 *16*	^{122}Xe(20.1 h)	148.612, 416.633, 90.596
352.24 *2*	29.43 *9*	^{149}Tb(4.118 h)	164.98, 388.57, 652.12
353.05 *6*	30.0 *8*	^{99}Rh(16.1 d)	528.24, 89.65, 322.41
353.9912 *5*	11.2 *3*	^{183}Ta(5.1 d)	246.0591, 107.9322, 161.3467
355.40 *9*	2.09 *9*	^{97}Zr(16.91 h)	743.36, 507.64, 1147.97
355.684 *2*	87	^{196}Au(6.183 d)	332.983, 521.175, 1091.331
356.017 *2*	62.05 *19*	^{133}Ba(10.52 y)	80.997, 302.853, 383.851
357.47 *5*	0.0221 *7*	^{103}Pd(16.991 d)	39.757, 497.080, 294.978
358.3 *1*	0.315 *20*	^{251}Fm(5.30 h)	425.4, 480.4, 383.2
359.10 *4*	0.096 *9*	^{128}Ba(2.43 d)	273.44, 374.99, 229.50
359.90 *9*	6.0 *3*	^{191}Pt(2.9 d)	538.90, 409.44, 82.407
360.32 *10*	0.1346 *10*	^{127}Te(9.35 h)	417.95, 202.860, 215.17
360.70 *11*	20 *4*	^{181}Re(19.9 h)	365.57, 639.30, 953.42
360.80 *10*	108	^{73}Se(7.15 h)	67.03, 865.09, 510
361.27 *5*	9.9 *5*	^{201}Pb(9.33 h)	331.19, 945.96, 907.56
362.81 *4*	2.2×10^{-6} *4*	^{85}Kr(10.756 y)	514.0067, 151.159, 129.820
362.81 *4*	>0.0010	^{85}Sr(64.84 d)	514.0067, 868.5, 151.159
363.55 *4*	11.4 *6*	^{159}Gd(18.479 h)	58.00, 348.16, 226.01
364.489 *5*	81.7 *6*	^{131}I(8.02070 d)	636.989, 284.305, 80.185
365.57 *12*	56 *6*	^{181}Re(19.9 h)	360.70, 639.30, 953.42
366.56 *10*	0.076 *12*	^{230}Pa(17.4 d)	314.8, 383.6, 51.72
367.8 *1*	†100 *7*	^{258}Md(51.5 d)	447.9, 276.8, 71.1
367.943 *10*	†73	^{200}Au(18.7 h)	497.77, 579.298, 255.87
367.943 *10*	87	^{200}Tl(26.1 h)	1205.717, 579.298, 828.320
370.0 *1*	17.2 *6*	^{147}Gd(38.06 h)	229.32, 396.00, 929.01
370.509 *8*	11.0 *6*	^{157}Eu(15.18 h)	63.929, 410.723, 54.548
371.4 *1*	11.7 *6*	^{257}Md(5.52 h)	325.1, 181.3, 388.5
371.918 *2*	30.60 *9*	^{129}Cs(32.06 h)	411.490, 548.945, 39.578
372.760	87	^{43}K(22.3 h)	617.490, 396.861, 593.390
373.246 *11*	14.04 *19*	^{131}Ba(11.50 d)	496.326, 123.805, 216.078
374.4852 *8*	0.721 *5*	^{192}Ir(73.831 d)	205.79549, 484.5780, 201.3112
374.72 *7*	82 *4*	^{204}Bi(11.22 h)	899.15, 984.02, 911.78
374.99 *2*	0.309 *15*	^{128}Ba(2.43 d)	273.44, 229.50, 359.10
374.991 *12*	17.2 *6*	^{127}Xe(36.4 d)	202.860, 172.132, 145.252
375.045 *6*	0.001554 *9*	^{239}Pu(24110 y)	51.624, 38.661, 129.297
376.676 *3*	3.2 *3*	^{245}Pu(10.5 h)	327.428, 560.13, 308.222
377.4 *3*	0.122 *15*	^{252}Es(471.7 d)	52.33, 64.42, 418.5
377.738 *5*	1.68 *4*	^{52}Fe(8.275 h)	168.684, 1039.902
378.5029 *7*	29.7 *12*	^{177}Lu(160.4 d)	208.3664, 228.4838, 418.5391
380.8 *1*	2.40 *17*	^{245}Bk(4.94 d)	252.80, 385.0, 103.1
381.17 *3*	2.49 *24*	^{83}Sr(32.41 h)	762.65, 381.53, 418.37

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
381.43 *10*	7.5 *4*	^{188}Pt(10.2 d)	187.59, 195.05, 423.34
381.53 *3*	14.1 *5*	^{83}Sr(32.41 h)	762.65, 418.37, 381.17
381.7 *3*	0.56 *5*	^{243}Pu(4.956 h)	84.0, 41.8, 67
381.768 *12*	89.6 *9*	^{183}Os(13.0 h)	114.463, 167.844, 851.474
382.6 *4*	>0.000060	^{113}Sn(115.09 d)	391.690, 255.06, 638.03
383.2 *3*	0.0196 *20*	^{251}Fm(5.30 h)	425.4, 480.4, 358.3
383.6 *5*	0.036 *3*	^{230}Pa(17.4 d)	314.8, 366.56, 51.72
383.7 *1*	13.6 *7*	^{250}Es(8.6 h)	828.82, 303.41, 349.4
383.851 *3*	8.94 *3*	^{133}Ba(10.52 y)	356.017, 80.997, 302.853
385.0 *1*	0.57 *4*	^{245}Bk(4.94 d)	252.80, 380.8, 103.1
385 *2*	0.05 *1*	^{254}Es(275.7 d)	63.0, 316, 304
385.31 *13*	0.060 *10*	^{93}Mo(6.85 h)	949.82, 689.07, 541.32
387.1 *5*	0.00810 *18*	^{253}Es(20.47 d)	41.79, 389.11, 42.98
387.87 *5*	2.15 *8*	^{195}Hg(41.6 h)	261.75, 560.27, 200.38
388.16 *2*	66	^{249}Cf(351 y)	333.37, 252.80, 266.62
388.5 *15*	0.07	^{257}Md(5.52 h)	371.4, 325.1, 181.3
388.531 *3*	82	^{87}Y(79.8 h)	484.805
388.57 *2*	18.37 *13*	^{149}Tb(4.118 h)	352.24, 164.98, 652.12
388.633 *11*	34.1 *7*	^{126}I(13.11 d)	491.243, 879.876
389.11 *8*	0.0264 *3*	^{253}Es(20.47 d)	41.79, 387.1, 42.98
391.25 *7*	5.4 *4*	^{111}Pd(5.5 h)	70.44, 632.80, 575.0
391.690 *8*	64	^{113}Sn(115.09 d)	255.06, 638.03, 382.6
392.87 *9*		^{88}Zr(83.4 d)	
393.529 *10*	4.68 *6*	^{67}Ga(3.2612 d)	93.311, 184.577, 300.219
396.00 *10*	34.3 *16*	^{147}Gd(38.06 h)	229.32, 929.01, 370.0
396.329 *20*	6.40 *10*	^{175}Yb(4.185 d)	282.522, 113.805, 144.863
396.861	11.85 *8*	^{43}K(22.3 h)	372.760, 617.490, 593.390
397.54 *10*	9.3 *3*	^{79}Kr(35.04 h)	261.29, 606.09, 306.47
398.9 *6*	88	^{173}Tm(8.24 h)	461.4, 62.6
400.56 *5*	36.6 *10*	^{28}Mg(20.91 h)	30.6383, 1342.27, 941.72
400.89 *7*	3.94 *13*	^{187}Ir(10.5 h)	912.95, 427.12, 610.68
400.99 *4*	0.329 *19*	^{176}Lu(3.78×10^{10} y)	306.78, 201.83, 88.34
401.323 *10*	3.35 *7*	^{203}Pb(51.873 h)	279.1967, 680.516
402.6 *3*	72 *6*	^{247}Cm(1.56×10^{7} y)	278.0, 287.4, 344.5
405 *2*	0.08	^{253}Fm(3.00 d)	271.8, 144.99, 62.47
405.6 *1*	0.99 *5*	^{251}Fm(5.30 h)	880.8, 453.1, 349.9
405.75 *6*	9.7 *5*	^{207}Po(5.80 h)	992.33, 742.64, 911.79
406.5 *2*	12.1 *12*	^{76}Kr(14.8 h)	315.7, 270.2, 45.48
406.52 *5*	2.81 *24*	^{150}Eu(12.8 h)	333.971, 1165.739, 921.17
407.338 *3*	42.1 *8*	^{172}Er(49.3 h)	610.062, 68.107, 446.025
407.63 *4*	25	^{193}Hg(11.8 h)	257.97, 573.25, 932.37
408.009 *8*	0.359 *12*	^{135}Xe(9.14 h)	249.770, 608.151, 158.260
409.44 *2*	8.0 *4*	^{191}Pt(2.9 d)	538.90, 359.90, 82.407
410.723 *9*	17.5 *9*	^{157}Eu(15.18 h)	63.929, 370.509, 54.548
411.115	2.231 *21*	^{152}Eu(13.542 y)	344.281, 778.91, 1089.700
411.490 *2*	22.31 *9*	^{129}Cs(32.06 h)	371.918, 548.945, 39.578
411.8044 *11*	96	^{198}Au(2.69517 d)	675.8874, 1087.6904
411.8044 *11*	82 *7*	^{198}Tl(5.3 h)	675.8874, 636.4, 1200.6
411.95 *5*	62.8 *13*	^{127}Cs(6.25 h)	124.70, 462.31, 587.01
414.03 *4*	72	^{184}Ta(8.7 h)	252.848, 920.932, 111.208
414.60 *5*	0.00030	^{226}Ra(1600 y)	186.10, 262.27, 600.66
414.81 *2*	83.3 *21*	^{126}Sb(12.46 d)	695.03, 666.331, 720.64
415.2	0.143 *22*	^{212}Pb(10.64 h)	238.632, 300.087, 115.183
416.33 *3*	21.8 *5*	^{77}Ge(11.30 h)	264.44, 211.03, 215.50
416.633 *25*	1.87 *4*	^{122}Xe(20.1 h)	350.065, 148.612, 90.596
417.95 *10*	1.0	^{127}Te(9.35 h)	360.32, 202.860, 215.17
418.01 *3*	34.2 *10*	^{130}I(12.36 h)	536.09, 668.54, 739.48
418.37 *3*	4.41 *15*	^{83}Sr(32.41 h)	762.65, 381.53, 381.17
418.5 *3*	0.220 *23*	^{252}Es(471.7 d)	52.33, 64.42, 377.4
418.5391 *7*	21.3 *8*	^{177}Lu(160.4 d)	208.3664, 228.4838, 378.5029
420.5	<0.03	^{48}Cr(21.56 h)	308.25, 112.36
422.04 *10*	0.0029 *5*	^{224}Ra(3.66 d)	240.987, 292.70, 645.50
423.34 *10*	4.36 *23*	^{188}Pt(10.2 d)	187.59, 195.05, 381.43
425.4 *1*	0.95 *5*	^{251}Fm(5.30 h)	480.4, 358.3, 383.2
426.00 *3*	0.58 *12*	^{166}Dy(81.6 h)	82.471, 28.242, 54.2400
426.0 *1*	†7	^{196}Au(6.183 d)	
426.25 *21*	4.12 *15*	^{109}In(4.2 h)	203.5, 623.7, 1148.9
427.12 *4*	4.12 *13*	^{187}Ir(10.5 h)	912.95, 400.89, 610.68
427.875 *6*	30	^{125}Sb(2.7582 y)	600.600, 635.954, 463.365
430.634 *20*	4.06 *20*	^{241}Cm(32.8 d)	471.805, 132.413, 165.049
430.634 *20*	0.0015 *3*	^{245}Bk(4.94 d)	205.879, 471.805, 164.8
431.4 *5*	0.000052 *4*	^{145}Sm(340 d)	61.25, 492.31
433.0 *5*	1.436 *25*	^{175}Hf(70 d)	343.40, 89.36, 229.6
433.22 *9*	0.0518 *9*	^{137}Ce(9.0 h)	447.15, 10.6, 436.59
433.937 *5*	90	^{108}Ag(418 y)	722.938, 614.281
434.849 *17*	34.4 *8*	^{186}Ir(16.64 h)	296.911, 137.155, 773.276
436.59 *9*	0.265 *9*	^{137}Ce(9.0 h)	447.15, 10.6, 433.22
439.401 *15*	80.4 *16*	^{150}Eu(35.8 y)	333.971, 584.274, 737.455
439.59 *2*	91	^{202}Tl(12.23 d)	520.11, 959.70
439.895 *22*	1.20 *8*	^{147}Nd(10.98 d)	91.105, 531.016, 319.411
440.02 *5*	0.428 *14*	^{123}I(13.27 h)	158.97, 528.96, 538.54
442.2 *1*	23.0 *14*	^{211}Rn(14.6 h)	674.1, 1362.9, 678.4
442.37 *5*	0.042 *6*	^{105}Rh(35.36 h)	319.14, 306.25, 280.41
443.37 *7*	10.5 *5*	^{105}Ag(41.29 d)	344.520, 280.41, 644.55
443.799 *19*	3.27 *9*	^{103}Ru(39.26 d)	497.080, 610.33, 557.039
446.025 *9*	2.96 *7*	^{172}Er(49.3 h)	610.062, 407.338, 68.107
446.15 *2*	23.2 *7*	^{81}Rb(4.576 h)	190.38, 510.31, 456.76
447.15 *8*	1.8	^{137}Ce(9.0 h)	10.6, 436.59, 433.22
447.515 *3*	23.05 *10*	^{168}Tm(93.1 d)	198.241, 815.990, 184.285
447.9 *1*	†37 *4*	^{258}Md(51.5 d)	367.8, 276.8, 71.1
450.85 *2*	0.011 *4*	^{85}Kr(4.480 h)	151.159, 129.820, 731.812
450.97 *3*	28.2 *7*	^{106}Ag(8.28 d)	511.842, 1045.83, 717.24
453.1 *1*	1.45 *8*	^{251}Fm(5.30 h)	880.8, 405.6, 349.9
453.655 *5*	8.61 *19*	^{232}Pa(1.31 d)	969.315, 894.351, 150.059
453.796 *11*	4.69 *10*	^{125}Xe(16.9 h)	188.418, 243.378, 54.968
453.88 *6*	65 *2*	^{146}Pm(5.53 y)	735.72, 589.3, 146.4
454.95 *5*	6.27 *16*	^{230}Pa(17.4 d)	951.95, 918.48, 898.68
454.95 *5*	0.000025 *7*	^{234}U(2.455×10^{5} y)	53.20, 120.90, 508.20
455.46 *3*	12.4 *6*	^{199}Tl(7.42 h)	208.20597, 247.26, 158.37947
456.76 *5*	3.02 *9*	^{81}Rb(4.576 h)	190.38, 446.15, 510.31
459.88 *12*	26.62 *19*	^{96}Nb(23.35 h)	778.224, 568.80, 849.929
460.50 *3*	3.95 *20*	^{193}Os(30.5 h)	139.03, 73.039, 557.36
460.57 *3*	0.121 *3*	^{97}Ru(2.9 d)	215.718, 324.48, 569.31
461.4 *8*	6.9 *3*	^{173}Tm(8.24 h)	398.9, 62.6
462.31 *5*	5.07 *5*	^{127}Cs(6.25 h)	411.95, 124.70, 587.01
463.005 *4*	1.250 *6*	^{228}Pa(22 h)	911.205, 964.770, 968.971
463.365 *4*	10.493 *15*	^{125}Sb(2.7582 y)	427.875, 600.600, 635.954
464.55 *4*	1.73 *8*	^{132}Cs(6.479 d)	567.14, 1031.70
464.55 *4*	76 *5*	^{132}La(4.8 h)	567.14, 1909.91, 663.07
468.07152 *24*	47.83 *17*	^{192}Ir(73.831 d)	316.50791, 308.45692, 295.95827
468.59 *6*	†2.81 *19*	^{102}Rh(207 d)	475.070, 628.05, 1103.16
469.37 *10*	17.5 *5*	^{105}Ru(4.44 h)	724.21, 676.36, 316.44
470.472 *13*	1.41 *3*	^{121}Te(16.78 d)	573.139, 507.591, 65.548
471.805 *20*	71 *3*	^{241}Cm(32.8 d)	430.634, 132.413, 165.049
471.805 *20*	0.026 *5*	^{245}Bk(4.94 d)	205.879, 164.8, 430.634
473.0 *4*	25.7 *7*	^{127}Sb(3.85 d)	685.7, 783.7, 252.4
475.070 *27*	95 *4*	^{102}Rh(2.9 y)	631.28, 697.49, 766.84
475.070 *27*	†45 *3*	^{102}Rh(207 d)	628.05, 1103.16, 468.59
476.8 *1*	42.0 *8*	^{144}Pm(363 d)	696.510, 618.01, 778.5
477.2 *2*	20.2 *14*	^{55}Co(17.53 h)	931.3, 1408.4, 1316.4
477.22 *4*	39	^{133}Ce(4.9 h)	510.36, 58.39, 130.803
477.595	10.52 *6*	^{7}Be(53.29 d)	
477.99 *2*	1.0	^{188}Re(16.98 h)	155.032, 632.99, 931.34
477.99 *2*	15	^{188}Ir(41.5 h)	155.032, 2214.62, 632.99
479.531 *17*	21.8 *4*	^{187}W(23.72 h)	685.774, 72.001, 134.243
480.4 *1*	0.392 *20*	^{251}Fm(5.30 h)	425.4, 358.3, 383.2
480.51 *2*	1.5	^{135}La(19.5 h)	874.51, 587.83, 220.94
482.182 *23*	80.50 *11*	^{181}Hf(42.39 d)	133.024, 345.916, 136.266
482.833 *22*	97 *5*	^{194}Ir(171 d)	328.455, 600.5, 687.7
484.40 *4*	2.21 *11*	^{183}Os(9.9 h)	1101.94, 1107.92, 1034.85
484.470 *20*	0.290 *2*	^{115}Cd(44.6 d)	933.8, 1290.580, 1132.570
484.5780 *4*	3.184 *11*	^{192}Ir(73.831 d)	205.79549, 374.4852, 201.3112
484.805 *5*	89.7 *3*	^{87}Y(79.8 h)	388.531
487.021 *12*	45.5 *6*	^{140}La(1.6781 d)	1596.210, 815.772, 328.762
489.23 *10*	6.5 *4*	^{47}Ca(4.536 d)	1297.09, 807.86, 767.1
490.5 *5*	†15.8 *18*	^{244}Bk(4.35 h)	891.5, 217.6, 921.5
491.243 *11*	2.85 *6*	^{126}I(13.11 d)	388.633, 879.876
492.3 *6*	8.03 *9*	^{115}Cd(53.46 h)	336.240, 527.900, 260.890
492.31 *15*	0.00328 *12*	^{145}Sm(340 d)	61.25, 431.4
496.326 *13*	47	^{131}Ba(11.50 d)	123.805, 216.078, 373.246
497.080 *7*	90.9 *10*	^{103}Ru(39.26 d)	610.33, 443.799, 557.039
497.080 *7*	0.00396 *14*	^{103}Pd(16.991 d)	39.757, 357.47, 294.978
497.358 *24*	0.047 *1*	^{115}In(4.486 h)	
497.77 *10*	†73 *5*	^{200}Au(18.7 h)	367.943, 579.298, 255.87
499.876 *10*	3.624 *16*	^{71}As(65.28 h)	174.954, 1095.490, 326.785
505.79 *3*	0.73 *5*	^{132}Cs(6.479 d)	667.718, 630.19, 1317.927
507.591 *11*	17.7 *4*	^{121}Te(16.78 d)	573.139, 470.472, 65.548
507.60 *10*	14.8 *8*	^{62}Zn(9.186 h)	596.56, 40.84, 548.35
507.64 *8*	5.03 *19*	^{97}Zr(16.91 h)	743.36, 1147.97, 355.40
508.20 *10*	0.000015 *4*	^{234}U(2.455×10^{5} y)	53.20, 120.90, 454.95
508.8 *5*	0.0228 *18*	^{142}Pr(19.12 h)	1575.85
510	0.296 *9*	^{73}Se(7.15 h)	360.80, 67.03, 865.09
510.056 *10*	52	^{182}Os(22.10 h)	180.230, 263.285, 55.506
510.31 *9*	5.3 *9*	^{81}Rb(4.576 h)	190.38, 446.15, 456.76
510.36 *7*	20.7 *5*	^{133}Ce(4.9 h)	477.22, 58.39, 130.803
510.530 *11*	1.83 *4*	^{133}I(20.8 h)	529.872, 875.329, 1298.223

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
511 *2*	0.076	^{222}Rn(3.8235 d)	
511.36 *5*	24.1 *5*	^{206}Po(8.8 d)	1032.26, 286.410, 807.38
511.842 *28*	88 *3*	^{106}Ag(8.28 d)	1045.83, 717.24, 450.97
514.0067 *19*	0.43	^{85}Kr(10.756 y)	362.81, 151.159, 129.820
514.0067 *19*	96	^{85}Sr(64.84 d)	868.5, 151.159, 362.81
516.18 *4*	40.7 *4*	^{206}Bi(6.243 d)	803.10, 881.01, 1718.70
518.05 *2*	13.6 *5*	^{135}Ce(17.7 h)	265.56, 300.07, 606.76
518.55 *7*	34.0 *11*	^{190}Ir(11.78 d)	186.718, 605.24, 557.972
520.11 *7*	0.58 *4*	^{202}Tl(12.23 d)	439.59, 959.70
520.39 *1*	44.7 *22*	^{83}Rb(86.2 d)	529.635, 552.63, 790.0
520.639 *7*	0.558 *22*	^{77}As(38.83 h)	238.996, 249.786, 87.8671
520.639 *7*	22.4 *4*	^{77}Br(57.036 h)	238.996, 297.215, 249.786
521.175 *5*	0.389 *9*	^{196}Au(6.183 d)	355.684, 332.983, 1091.331
526.57 *4*	45 *2*	^{128}Sb(9.01 h)	753.82, 743.22, 314.12
527.900 *10*	27.45 *18*	^{115}Cd(53.46 h)	336.240, 492.3, 260.890
528.24 *7*	33	^{99}Rh(16.1 d)	353.05, 89.65, 322.41
528.96 *5*	1.39 *4*	^{123}I(13.27 h)	158.97, 440.02, 538.54
529.635 *9*	29.3 *13*	^{83}Rb(86.2 d)	520.39, 552.63, 790.0
529.872 *11*	87.0 *17*	^{133}I(20.8 h)	875.329, 1298.223, 510.530
531.016 *22*	13.1 *7*	^{147}Nd(10.98 d)	91.105, 319.411, 439.895
531.54 *4*	1.6	^{167}Tm(9.25 d)	207.801, 57.0723, 264.9
534.318 *11*	66.6 *3*	^{156}Tb(5.35 d)	199.2132, 1222.36, 88.9667
535.61 *18*	3.46 *13*	^{85}Y(4.86 h)	231.67, 2123.8, 767.40
536 *10*	>0.015	^{243}Bk(4.5 h)	187.1, 146.4, 41
536.09 *3*	99	^{130}I(12.36 h)	668.54, 739.48, 418.01
537.261 *9*	24.39 *7*	^{140}Ba(12.752 d)	29.9640, 162.660, 304.849
538.11 *10*	0.0110 *9*	^{236}Np(22.5 h)	642.35, 687.59, 104.234
538.54 *5*	0.382 *12*	^{123}I(13.27 h)	158.97, 528.96, 440.02
538.90 *5*	13.7 *7*	^{191}Pt(2.9 d)	409.44, 359.90, 82.407
539.59 *5*	78.4 *24*	^{100}Rh(20.8 h)	2376.1, 1553.4, 822.6
540.18 *6*	20	^{154}Tb(9.4 h)	123.071, 247.925, 649.564
541.32 *21*	0.060 *10*	^{93}Mo(6.85 h)	949.82, 689.07, 385.31
544.7 *3*	17.9 *9*	^{129}Sb(4.40 h)	812.8, 914.6, 1030.1
545.0 *1*	91	^{209}At(5.41 h)	781.9, 790.2, 195.0
545.06 *5*	†4.6 *5*	^{101}Rh(4.34 d)	306.85, 127.23, 179.62
548.35 *11*	15.3 *8*	^{62}Zn(9.186 h)	596.56, 40.84, 507.60
548.945 *8*	3.40 *3*	^{129}Cs(32.06 h)	371.918, 411.490, 39.578
550.284 *12*	94.5 *7*	^{148}Pm(41.29 d)	629.987, 725.673, 1013.808
550.284 *12*	22.00 *16*	^{148}Pm(5.370 d)	1465.12, 914.85, 611.293
550.284 *12*	98.5 *22*	^{148}Eu(54.5 d)	629.987, 611.293, 553.231
550.7 *1*	5.0	^{248}Bk(23.7 h)	592.2, 41.53
552.63 *2*	16.0 *7*	^{83}Rb(86.2 d)	520.39, 529.635, 790.0
553.231 *14*	12.9 *22*	^{148}Eu(54.5 d)	550.284, 629.987, 611.293
554.348 *2*	70.8 *7*	^{82}Br(35.30 h)	776.517, 619.106, 698.374
554.348 *2*	62.4 *8*	^{82}Rb(6.472 h)	776.517, 619.106, 1044.002
554.60 *7*	0.000079 *5*	^{244}Cm(18.10 y)	42.824, 98.860, 152.63
556.52 *4*	1.92 *19*	^{102}Rh(207 d)	
556.65 *5*	0.118 *4*	^{129}Te(33.6 d)	695.88, 729.57, 817.04
557.039 *20*	0.8672 *9*	^{103}Ru(39.26 d)	497.080, 610.33, 443.799
557.36 *6*	1.30 *12*	^{193}Os(30.5 h)	139.03, 460.50, 73.039
557.972 *14*	30.1 *9*	^{190}Ir(11.78 d)	186.718, 605.24, 518.55
558.454 *12*	†4.4 *3*	^{114}In(49.51 d)	725.298
559.101 *5*	45	^{76}As(26.32 h)	657.041, 1216.104, 1212.94
559.101 *5*	74	^{76}Br(16.2 h)	657.041, 1853.67, 1216.104
560.13 *5*	5.4 *5*	^{245}Pu(10.5 h)	327.428, 308.222, 376.676
560.27 *4*	7	^{195}Hg(41.6 h)	261.75, 387.87, 200.38
561.03 *6*	100	^{92}Nb(3.47×10^{7} y)	934.46
561.11 *7*	0.00015 *4*	^{242}Cm(162.8 d)	44.08, 101.90, 157.42
561.67 *10*	0.013 *3*	^{95}Nb(34.975 d)	765.794, 204.117
564.119 *17*	69	^{122}Sb(2.70 d)	692.794, 1256.901, 793.278
567.14 *3*	0.234 *9*	^{132}Cs(6.479 d)	464.55, 1031.70
567.14 *3*	15.7 *12*	^{132}La(4.8 h)	464.55, 1909.91, 663.07
568.80 *12*	58.0 *3*	^{96}Nb(23.35 h)	778.224, 459.88, 849.929
568.84 *5*	7.1 *3*	^{189}Pt(10.87 h)	721.41, 94.33, 243.37
569.31 *4*	0.873 *17*	^{97}Ru(2.9 d)	215.718, 324.48, 460.57
569.315 *15*	15.43 *11*	^{134}Cs(2.062 y)	604.699, 795.845, 801.932
569.5 *1*	8.2 *8*	^{234}Pa(6.70 h)	131.30, 946.00, 883.24
569.702 *2*	97.74 *3*	^{207}Bi(31.55 y)	1063.662, 1770.237, 1442.20
570.4 *3*	†0.0006	^{208}Po(2.898 y)	291.7, 601.6, 861.9
572.9 *3*	18	^{170}Hf(16.01 h)	164.78, 620.7, 120.17
573.139 *11*	80.3 *17*	^{121}Te(16.78 d)	507.591, 470.472, 65.548
573.25 *6*	14.2 *10*	^{193}Hg(11.8 h)	257.97, 407.63, 932.37
574.17 *3*	0.033	^{69}Zn(13.76 h)	
574.17 *3*	13.3 *11*	^{69}Ge(39.05 h)	1107.01, 872.14, 1336.72
574.8 *3*	0.070 *8*	^{226}Ac(29 h)	230.37, 158.18, 72.20
575.0 *1*	3.2 *3*	^{111}Pd(5.5 h)	70.44, 391.25, 632.80
576.0 *2*	0.065 *9*	^{146}Gd(48.27 d)	154.57, 115.51, 114.71
579.298 *13*	†72 *5*	^{200}Au(18.7 h)	497.77, 367.943, 255.87
579.298 *13*	13.8 *7*	^{200}Tl(26.1 h)	367.943, 1205.717, 828.320
582.082 *3*	†0.055 *7*	^{95}Nb(86.6 h)	204.117, 786.198, 820.624
582.082 *3*	29.96 *5*	^{95}Tc(61 d)	204.117, 835.149, 786.198
584.274 *12*	52.6 *14*	^{150}Eu(35.8 y)	333.971, 439.401, 737.455
584.32 *2*	2.84 *20*	^{254}Es(39.3 h)	648.80, 693.79, 688.68
585.13 *5*	1.99 *8*	^{195}Hg(9.9 h)	779.80, 61.46, 180.11
586.294 *6*	†94 *6*	^{152}Tb(17.5 h)	344.281, 271.135, 778.91
587.01 *5*	4.21 *6*	^{127}Cs(6.25 h)	411.95, 124.70, 462.31
587.46 *2*	15.6 *5*	^{151}Tb(17.609 h)	287.357, 251.863, 108.088
587.83 *2*	0.1108 *8*	^{135}La(19.5 h)	480.51, 874.51, 220.94
589.3 *1*	0.42 *9*	^{146}Pm(5.53 y)	453.88, 735.72, 146.4
590.44 *6*	12.06 *19*	^{101}Pd(8.47 h)	296.29, 269.67, 24.46
590.88 *1*	0.069 *3*	^{149}Pm(53.08 h)	285.95, 859.46, 22.510
592.2	>0.015	^{248}Bk(23.7 h)	550.7, 41.53
593.31 *9*	0.00225 *19*	^{127}Te(109 d)	57.61, 658.89, 650.91
593.390	11.26 *8*	^{43}K(22.3 h)	372.760, 617.490, 396.861
595.847 *6*	59 *3*	^{74}As(17.77 d)	608.353, 1204.208, 887.19
596.56 *13*	26	^{62}Zn(9.186 h)	40.84, 548.35, 507.60
600.5 *1*	62 *3*	^{194}Ir(171 d)	482.833, 328.455, 687.7
600.600 *4*	17.86 *5*	^{125}Sb(2.7582 y)	427.875, 635.954, 463.365
600.66 *5*	0.00049	^{226}Ra(1600 y)	186.10, 262.27, 414.60
601.6 *2*	†0.00049	^{208}Po(2.898 y)	291.7, 570.4, 861.9
602.730 *3*	97.8 *3*	^{124}Sb(60.20 d)	1690.980, 722.786, 645.855
602.730 *3*	60	^{124}I(4.18 d)	1690.980, 722.786, 1509.49
604.699 *15*	97.56 *32*	^{134}Cs(2.062 y)	795.845, 569.315, 801.932
605.24 *5*	39.9 *14*	^{190}Ir(11.78 d)	186.718, 518.55, 557.972
606.09 *10*	8.12 *20*	^{79}Kr(35.04 h)	261.29, 397.54, 306.47
606.76 *2*	18.8 *5*	^{135}Ce(17.7 h)	265.56, 300.07, 518.05
608.151 *12*	2.90 *9*	^{135}Xe(9.14 h)	249.770, 408.009, 158.260
608.353 *5*	0.552 *12*	^{74}As(17.77 d)	595.847, 1204.208, 887.19
610.062 *2*	44.2 *10*	^{172}Er(49.3 h)	407.338, 68.107, 446.025
610.33 *20*	5.75 *5*	^{103}Ru(39.26 d)	497.080, 443.799, 557.039
610.68 *11*	3.93 *15*	^{187}Ir(10.5 h)	912.95, 427.12, 400.89
611.293 *8*	1.021 *11*	^{148}Pm(5.370 d)	1465.12, 550.284, 914.85
611.293 *8*	20.5 *4*	^{148}Eu(54.5 d)	550.284, 629.987, 553.231
612.00 *10*	5.7 *3*	^{86}Zr(16.5 h)	242.80, 29.10, 135.6
612.46564 *20*	4.34 *4*	^{192}Au(4.94 h)	316.50791, 295.95827, 2236.89
614.281 *6*	89.8 *18*	^{108}Ag(418 y)	722.938, 433.937
617.490	79.2 *6*	^{43}K(22.3 h)	372.760, 396.861, 593.390
617.8 *3*	12.0 *10*	^{99}Rh(4.7 h)	340.71, 1261.2, 936.7
618.01 *3*	98.6 *10*	^{144}Pm(363 d)	696.510, 476.8, 778.5
619.106 *4*	43.4 *4*	^{82}Br(35.30 h)	776.517, 554.348, 698.374
619.106 *4*	37.976 *8*	^{82}Rb(6.472 h)	776.517, 554.348, 1044.002
620.3 *2*	0.019 *3*	^{111}Ag(7.45 d)	342.118, 245.422, 96.73
620.7 *3*	23	^{170}Hf(16.01 h)	164.78, 120.17, 572.9
623.7 *3*	5.5 *3*	^{109}In(4.2 h)	203.5, 1148.9, 426.25
627.72 *10*	32.6 *10*	^{86}Y(14.74 h)	1076.64, 1153.01, 777.35
628.05 *4*	†4.4 *4*	^{102}Rh(207 d)	475.070, 1103.16, 468.59
629.95 *3*	24.8 *5*	^{72}Ga(14.10 h)	834.01, 2201.69, 2507.82
629.95 *3*	7.92 *14*	^{72}As(26.0 h)	834.01, 1463.95, 1050.73
629.987 *8*	89	^{148}Pm(41.29 d)	550.284, 725.673, 1013.808
629.987 *8*	71.9 *16*	^{148}Eu(54.5 d)	550.284, 611.293, 553.231
630.19 *2*	0.95 *3*	^{132}Cs(6.479 d)	667.718, 505.79, 1317.927
630.354 *14*	0.0230 *25*	^{186}Re(90.64 h)	137.155, 767.508, 333.4
631.28 *5*	55.9 *20*	^{102}Rh(2.9 y)	475.070, 697.49, 766.84
632.56 *10*	†0.010	^{133}Ba(38.9 h)	
632.80 *20*	3.6 *3*	^{111}Pd(5.5 h)	70.44, 391.25, 575.0
632.99 *2*	1.25 *4*	^{188}Re(16.98 h)	155.032, 477.99, 931.34
632.99 *2*	18 *3*	^{188}Ir(41.5 h)	155.032, 2214.62, 477.99
633.03 *14*	2.15 *20*	^{146}Pm(5.53 y)	747.2
633.03 *14*	43 *7*	^{146}Eu(4.59 d)	747.2, 634.07, 1533.8
634.07 *11*	37 *6*	^{146}Eu(4.59 d)	747.2, 633.03, 1533.8
634.26 *15*	0.036	^{74}As(17.77 d)	634.78, 1269.06
634.78 *10*	15.4 *5*	^{74}As(17.77 d)	634.26, 1269.06
635.954 *5*	11.31 *9*	^{125}Sb(2.7582 y)	427.875, 600.600, 463.365
636.4 *3*	10.1 *7*	^{198}Tl(5.3 h)	411.8044, 675.8874, 1200.6
636.989 *4*	7.17 *9*	^{131}I(8.02070 d)	364.489, 284.305, 80.185
638.03 *8*	0.00095 *4*	^{113}Sn(115.09 d)	391.690, 255.06, 382.6
639.30 *14*	6.4 *13*	^{181}Re(19.9 h)	365.57, 360.70, 953.42
641.285 *9*	0.0022	^{142}Pr(19.12 h)	
642.35 *9*	0.9	^{236}Np(22.5 h)	687.59, 538.11, 104.234
643.5 *5*	0.00024	^{236}Pu(2.858 y)	47.574, 108.96, 166.0
644.01 *4*	84	^{119}Te(16.03 h)	699.85, 1749.65, 1413.19
644.55 *7*	11.1 *5*	^{105}Ag(41.29 d)	344.520, 280.41, 443.37
645.157 *16*	1.17 *4*	^{194}Ir(19.15 h)	328.455, 293.545, 938.70
645.50 *10*	0.0052 *9*	^{224}Ra(3.66 d)	240.987, 292.70, 422.04
645.855 *2*	7.38 *5*	^{124}Sb(60.20 d)	602.730, 1690.980, 722.786
646.116 *9*	78.0 *8*	^{185}Os(93.6 d)	874.813, 880.523, 717.424

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
647.3 *1*	0.024	^{109}Pd(13.7012 h)	88.04, 311.4, 781.4
648.80 *2*	28.4 *20*	^{254}Es(39.3 h)	693.79, 688.68, 584.32
649.42 *5*	3.8	^{210}Bi(3.04×10^{6} y)	265.832, 304.896, 344.52
649.564 *11*	10.9 *6*	^{154}Tb(9.4 h)	123.071, 247.925, 540.18
650.91 *13*	0.00028 *9*	^{127}Te(109 d)	57.61, 658.89, 593.31
652.12 *2*	16.25 *22*	^{149}Tb(4.118 h)	352.24, 164.98, 388.57
652.43 *4*	100	^{98}Tc(4.2×10^{6} y)	745.36
652.9 *2*	8.0 *3*	^{91}Sr(9.63 h)	1024.3, 749.8, 925.8
653.512 *25*	15.0 *7*	^{145}Eu(5.93 d)	893.73, 1658.53, 1997.00
657.041 *5*	6.2 *3*	^{76}As(26.32 h)	559.101, 1216.104, 1212.94
657.041 *5*	15.9 *7*	^{76}Br(16.2 h)	559.101, 1853.67, 1216.104
657.7622 *21*	94.0 *4*	^{110}Ag(249.79 d)	884.685, 937.493, 1384.300
657.7622 *21*	98.3 *20*	^{110}In(4.9 h)	884.685, 937.493, 707.40
658.89 *6*	0.0122 *9*	^{127}Te(109 d)	57.61, 593.31, 650.91
661.660 *3*	85.1 *2*	^{137}Cs(30.07 y)	
662.2 *1*	†83 *9*	^{171}Hf(12.1 h)	122.0, 347.18, 1071.8
663.07 *3*	9.0 *6*	^{132}La(4.8 h)	464.55, 567.14, 1909.91
664.571 *15*	5.69 *4*	^{143}Ce(33.039 h)	293.266, 57.356, 721.929
666.331 *12*	100	^{126}Sb(12.46 d)	695.03, 414.81, 720.64
666.331 *12*	33.1 *7*	^{126}I(13.11 d)	753.819, 1420.17, 2045.17
667.404 *20*	11.04 *19*	^{171}Lu(8.24 d)	739.78, 19.394, 75.878
667.718 *3*	98	^{132}Cs(6.479 d)	630.19, 505.79, 1317.927
668.54 *3*	96 *3*	^{130}I(12.36 h)	536.09, 739.48, 418.01
669.60 *7*	0.0035 *6*	^{211}At(7.214 h)	742.64
672.3 *1*	0.87 *3*	^{113}Ag(5.37 h)	298.58, 258.8, 316.3
674.1 *1*	45	^{211}Rn(14.6 h)	1362.9, 678.4, 442.2
675.795 *5*	0.514 *7*	^{145}Pr(5.984 h)	748.278, 72.500, 978.969
675.8874 *19*	0.804 *3*	^{198}Au(2.69517 d)	411.8044, 1087.6904
675.8874 *19*	11	^{198}Tl(5.3 h)	411.8044, 636.4, 1200.6
676.36 *8*	15.7 *5*	^{105}Ru(4.44 h)	724.21, 469.37, 316.44
677.516 *7*	9.8 *3*	^{147}Eu(24.1 d)	197.299, 121.220, 1077.043
678.4 *1*	28.9 *14*	^{211}Rn(14.6 h)	674.1, 1362.9, 442.2
680.2 *1*	0.658 *14*	^{93}Y(10.18 h)	266.9, 947.1, 1917.8
680.516 *10*	0.753 *18*	^{203}Pb(51.873 h)	279.1967, 401.323
685.7 *5*	37	^{127}Sb(3.85 d)	473.0, 783.7, 252.4
685.774 *18*	27.3 *6*	^{187}W(23.72 h)	479.531, 72.001, 134.243
687.0	0.261 *6*	^{211}At(7.214 h)	
687.59 *9*	0.250 *5*	^{236}Np(22.5 h)	642.35, 538.11, 104.234
687.7 *1*	59 *3*	^{194}Ir(171 d)	482.833, 328.455, 600.5
688.68 *2*	12.3 *9*	^{254}Es(39.3 h)	648.80, 693.79, 584.32
689.07 *5*	0.070 *10*	^{93}Mo(6.85 h)	949.82, 541.32, 385.31
692.03 *2*	0.157 *9*	^{57}Co(271.79 d)	122.0614, 136.4743, 14.41300
692.794 *17*	3.78 *12*	^{122}Sb(2.70 d)	564.119, 1256.901, 793.278
693.79 *2*	24.3 *17*	^{254}Es(39.3 h)	648.80, 688.68, 584.32
695.03 *2*	100	^{126}Sb(12.46 d)	666.331, 414.81, 720.64
695.88 *6*	2.988 *12*	^{129}Te(33.6 d)	729.57, 556.65, 817.04
696.510 *5*	99	^{144}Pm(363 d)	618.01, 476.8, 778.5
697.49 *8*	43.9 *20*	^{102}Rh(2.9 y)	475.070, 631.28, 766.84
698.374 *5*	28.49 *25*	^{82}Br(35.30 h)	776.517, 554.348, 619.106
699.85 *6*	10.1 *5*	^{119}Te(16.03 h)	644.01, 1749.65, 1413.19
702.626 *19*	97.9 *20*	^{94}Nb(2.03×10^{4} y)	871.082
702.626 *19*	99.6 *18*	^{94}Tc(293 m)	871.082, 849.74, 916.10
703.44 *3*	31	^{205}Bi(15.31 d)	1764.36, 987.62, 1043.72
707.40 *2*	29.5 *10*	^{110}In(4.9 h)	657.7622, 884.685, 937.493
708.06 *6*	26.4 *11*	^{139}Nd(5.50 h)	113.94, 737.96, 982.2
711.683 *8*	55.32 *22*	^{166}Ho(1.20×10^{3} y)	184.410, 810.276, 280.459
717.24 *6*	28.9 *8*	^{106}Ag(8.28 d)	511.842, 1045.83, 450.97
717.424 *12*	3.94 *4*	^{185}Os(93.6 d)	646.116, 874.813, 880.523
717.72 *8*	4.05 *23*	^{151}Pm(28.40 h)	340.08, 167.75, 275.21
720.64 *4*	53.8 *24*	^{126}Sb(12.46 d)	695.03, 666.331, 414.81
721.41 *3*	9.3 *4*	^{189}Pt(10.87 h)	94.33, 568.84, 243.37
721.929 *13*	5.39 *4*	^{143}Ce(33.039 h)	293.266, 57.356, 664.571
722.12 *8*	7.7 *5*	^{154}Tb(21.5 h)	123.071, 1274.436, 2187.10
722.786 *4*	10.76 *10*	^{124}Sb(60.20 d)	602.730, 1690.980, 645.855
722.786 *4*	9.98 *18*	^{124}I(4.18 d)	602.730, 1690.980, 1509.49
722.938 *8*	90.8 *18*	^{108}Ag(418 y)	433.937, 614.281
723.304 *5*	20.22 *9*	^{154}Eu(8.593 y)	123.071, 1274.436, 1004.725
724.199 *5*	44.17 *13*	^{95}Zr(64.02 d)	756.729, 235.69
724.21 *8*	47	^{105}Ru(4.44 h)	469.37, 676.36, 316.44
725.298 *10*	†4.4 *3*	^{114}In(49.51 d)	558.454
725.673 *9*	32.7 *3*	^{148}Pm(41.29 d)	550.284, 629.987, 1013.808
728.18 *2*	†100 *3*	^{160}Ho(5.02 h)	879.383, 962.317, 966.171
729.57 *5*	0.70 *3*	^{129}Te(33.6 d)	695.88, 556.65, 817.04
731.812 *13*	0.007 *3*	^{85}Kr(4.480 h)	151.159, 129.820, 450.85
735.72 *6*	22.5 *15*	^{146}Pm(5.53 y)	453.88, 589.3, 146.4
737.455 *15*	9.60 *19*	^{150}Eu(35.8 y)	333.971, 439.401, 584.274
737.96 *8*	35	^{139}Nd(5.50 h)	113.94, 982.2, 708.06
739.42 *5*	4.23 *24*	^{73}Ga(4.86 h)	297.32, 325.70, 767.8
739.48 *3*	82 *3*	^{130}I(12.36 h)	536.09, 668.54, 418.01
739.50 *2*	12.1 *4*	^{99}Mo(65.94 h)	181.063, 140.511, 777.921
739.78 *2*	47.8 *7*	^{171}Lu(8.24 d)	19.394, 667.404, 75.878
741.98 *4*	1.2×10^{-6} *4*	^{143}Pr(13.57 d)	
741.98 *4*	39	^{143}Pm(265 d)	
742.64 *8*	28.2 *4*	^{207}Po(5.80 h)	992.33, 911.79, 405.75
742.64 *8*	0.0010 *3*	^{211}At(7.214 h)	669.60
743.22 *2*	100 *5*	^{128}Sb(9.01 h)	753.82, 314.12, 526.57
743.36 *3*	93	^{97}Zr(16.91 h)	507.64, 1147.97, 355.40
743.971 *5*	66 *18*	^{244}Am(10.1 h)	897.848, 153.863, 99.383
744.233 *13*	†90.6 *4*	^{52}Mn(5.591 d)	1434.068, 935.538, 1333.649
745.36 *4*	102 *7*	^{98}Tc(4.2×10^{6} y)	652.43
745.9 *1*	0.207 *17*	^{177}Ta(56.56 h)	112.9498, 208.3664, 1057.8
747.2 *1*	34.0 *16*	^{146}Pm(5.53 y)	633.03
747.2 *1*	98	^{146}Eu(4.59 d)	633.03, 634.07, 1533.8
748.278 *5*	0.5250 *21*	^{145}Pr(5.984 h)	675.795, 72.500, 978.969
748.601 *2*	8.22 *10*	^{149}Gd(9.28 d)	149.735, 298.634, 346.651
749.8 *1*	23.61 *17*	^{91}Sr(9.63 h)	1024.3, 652.9, 925.8
749.95 *3*	†49.5 *12*	^{56}Ni(5.9 d)	158.38, 811.85, 269.50
753.819 *13*	4.16 *9*	^{126}I(13.11 d)	666.331, 1420.17, 2045.17
753.82 *2*	100 *5*	^{128}Sb(9.01 h)	743.22, 314.12, 526.57
755 *2*	†100	^{243}Bk(4.5 h)	946, 840, 87.4
756.729 *12*	54	^{95}Zr(64.02 d)	724.199, 235.69
762.3 *1*	0.192 *9*	^{137}Ce(34.4 h)	824.82, 169.26, 835.38
762.65 *10*	30	^{83}Sr(32.41 h)	381.53, 418.37, 381.17
765.794 *7*	100	^{95}Nb(34.975 d)	204.117, 561.67
765.794 *7*	93.82 *19*	^{95}Tc(20.0 h)	1073.71, 947.67, 869.60
766.38 *2*	0.000022 *2*	^{238}Pu(87.74 y)	43.498, 99.853, 152.720
766.84 *6*	33.9 *20*	^{102}Rh(2.9 y)	475.070, 631.28, 697.49
767.1 *3*	0.199 *14*	^{47}Ca(4.536 d)	1297.09, 489.23, 807.86
767.40 *19*	3.6 *4*	^{85}Y(4.86 h)	231.67, 2123.8, 535.61
767.508 *14*	0.0255 *25*	^{186}Re(90.64 h)	137.155, 630.354, 333.4
767.8 *1*	1.44 *8*	^{73}Ga(4.86 h)	297.32, 325.70, 739.42
770.6 *2*	0.0030 *3*	^{65}Zn(244.26 d)	1115.546, 344.95
773.276 *14*	9.1 *3*	^{186}Ir(16.64 h)	296.911, 137.155, 434.849
773.67 *3*	49.9 *5*	^{131}Te(30 h)	852.21, 793.75, 1125.46
776.517 *3*	83.5 *8*	^{82}Br(35.30 h)	554.348, 619.106, 698.374
776.517 *3*	84	^{82}Rb(6.472 h)	554.348, 619.106, 1044.002
777.35 *10*	22.4 *6*	^{86}Y(14.74 h)	1076.64, 627.72, 1153.01
777.921 *20*	4.28 *10*	^{99}Mo(65.94 h)	739.50, 181.063, 140.511
778.224 *15*	96.45 *19*	^{96}Nb(23.35 h)	568.80, 459.88, 849.929
778.224 *15*	100	^{96}Tc(4.28 d)	849.929, 812.581, 1126.965
778.5 *1*	1.51 *5*	^{144}Pm(363 d)	696.510, 618.01, 476.8
778.817 *10*	18.9 *4*	^{166}Tm(7.70 h)	2052.36, 184.410, 1273.540
778.91 *1*	12.96 *7*	^{152}Eu(13.542 y)	344.281, 411.115, 1089.700
778.91 *1*	†58 *4*	^{152}Tb(17.5 h)	344.281, 586.294, 271.135
779.80 *5*	7	^{195}Hg(9.9 h)	61.46, 585.13, 180.11
781.4 *2*	0.0112 *12*	^{109}Pd(13.7012 h)	88.04, 311.4, 647.3
781.9 *1*	83.5 *22*	^{209}At(5.41 h)	545.0, 790.2, 195.0
783.29 *9*	17	^{50}V(1.4×10^{17} y)	
783.7 *5*	15.0 *3*	^{127}Sb(3.85 d)	685.7, 473.0, 252.4
785.09 *6*	18.3 *10*	^{252}Es(471.7 d)	139.03, 924.12, 102.32
786.198 *4*	†0.0158 *21*	^{95}Nb(86.6 h)	204.117, 582.082, 820.624
786.198 *4*	8.66 *4*	^{95}Tc(61 d)	204.117, 582.082, 835.149
788.742 *8*	34	^{138}La(1.05×10^{11} y)	
790.0 *4*	0.657 *18*	^{83}Rb(86.2 d)	520.39, 529.635, 552.63
790.2 *1*	63.5 *17*	^{209}At(5.41 h)	545.0, 781.9, 195.0
792.071 *6*	37.5 *6*	^{184}Re(38.0 d)	903.279, 111.208, 894.757
793.278 *25*	0.016 *4*	^{122}Sb(2.70 d)	564.119, 692.794, 1256.901
793.75 *3*	18.10 *25*	^{131}Te(30 h)	773.67, 852.21, 1125.46
795.845 *22*	85.44 *38*	^{134}Cs(2.062 y)	604.699, 569.315, 801.932
796.462 *25*	0.0665 *20*	^{107}Cd(6.50 h)	93.124, 828.93, 324.81
798.80 *4*	61 *4*	^{246}Bk(1.80 d)	1081.40, 833.60, 1124.29
801.932 *22*	8.73 *4*	^{134}Cs(2.062 y)	604.699, 795.845, 569.315
803.10 *5*	99	^{206}Bi(6.243 d)	881.01, 516.18, 1718.70
803.10 *5*	0.00121 *4*	^{210}Po(138.376 d)	
806.372 *17*	9.5 *3*	^{165}Tm(30.06 h)	242.917, 47.155, 297.369
807.38 *8*	22.7 *5*	^{206}Po(8.8 d)	1032.26, 511.36, 286.410
807.86 *10*	6.5 *4*	^{47}Ca(4.536 d)	1297.09, 489.23, 767.1
810.064 *15*	16.63 *25*	^{172}Lu(6.70 d)	1093.657, 900.724, 181.528
810.276 *8*	58.08 *22*	^{166}Ho(1.20×10^{3} y)	184.410, 711.683, 280.459
810.764 *15*	99	^{58}Co(70.82 d)	863.935, 1674.679
811.79 *5*	9.70 *4*	^{156}Eu(15.19 d)	88.9667, 1230.68, 1153.67
811.85 *3*	†86.0 *9*	^{56}Ni(5.9 d)	158.38, 749.95, 269.50
812.581 *15*	82 *4*	^{96}Tc(4.28 d)	778.224, 849.929, 1126.965
812.8 *5*	43	^{129}Sb(4.40 h)	914.6, 544.7, 1030.1
815.772 *19*	23.28 *19*	^{140}La(1.6781 d)	1596.210, 487.021, 328.762
815.990 *4*	48.99 *16*	^{168}Tm(93.1 d)	198.241, 447.515, 184.285

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
817.04 *5*	0.091 *3*	^{129}Te(33.6 d)	695.88, 729.57, 556.65
818.514 *12*	†100	^{136}Cs(13.16 d)	1048.073, 340.547, 1235.362
820.3 *3*	30	^{203}Bi(11.76 h)	825.2, 896.9, 1847.4
820.624 *5*	†0.00037 *21*	^{95}Nb(86.6 h)	204.117, 582.082, 786.198
822.48 *5*	4.28 *16*	^{125}Sn(9.64 d)	1067.10, 1089.15, 915.55
822.6 *1*	20.1 *10*	^{100}Rh(20.8 h)	539.59, 2376.1, 1553.4
824.82 *12*	0.44	^{137}Ce(34.4 h)	169.26, 762.3, 835.38
825.2 *1*	14.6 *7*	^{203}Bi(11.76 h)	820.3, 896.9, 1847.4
826.06 *3*	0.0076 *8*	^{60}Co(5.2714 y)	1332.501, 1173.237, 346.93
828.320 *12*	10.8 *6*	^{200}Tl(26.1 h)	367.943, 1205.717, 579.298
828.82 *3*	72 *4*	^{250}Es(8.6 h)	303.41, 349.4, 383.7
828.93 *3*	0.17	^{107}Cd(6.50 h)	93.124, 796.462, 324.81
833.50 *5*	5.89 *6*	^{66}Ga(9.49 h)	1039.30, 2752.01, 2189.85
833.60 *4*	5.0 *3*	^{246}Bk(1.80 d)	798.80, 1081.40, 1124.29
834.01 *2*	96	^{72}Ga(14.10 h)	2201.69, 629.95, 2507.82
834.01 *2*	80	^{72}As(26.0 h)	629.95, 1463.95, 1050.73
834.848 *3*	99.976 *1*	^{54}Mn(312.3 d)	
835.149 *5*	26.63 *19*	^{95}Tc(61 d)	204.117, 582.082, 786.198
835.38 *12*	0.103 *4*	^{137}Ce(34.4 h)	824.82, 169.26, 762.3
840 *40*	†30	^{243}Bk(4.5 h)	755, 946, 87.4
841.586 *8*	14.6 *3*	^{152}Eu(9.274 h)	963.37, 121.7824, 1389.00
846.771 *5*	100	^{56}Co(77.27 d)	1238.282, 2598.459, 1771.351
847.025 *25*	0.00030 *10*	^{134}Cs(2.062 y)	
849.74 *7*	95.7 *18*	^{94}Tc(293 m)	871.082, 702.626, 916.10
849.929 *13*	20.45 *19*	^{96}Nb(23.35 h)	778.224, 568.80, 459.88
849.929 *13*	98 *4*	^{96}Tc(4.28 d)	778.224, 812.581, 1126.965
850.647 *24*	0.065 *13*	^{88}Y(106.65 d)	1836.063, 898.042, 2734.086
851.474 *17*	4.56 *3*	^{183}Os(13.0 h)	381.768, 114.463, 167.844
852.21 *3*	27.0 *6*	^{131}Te(30 h)	773.67, 793.75, 1125.46
859.46 *6*	0.109 *3*	^{149}Pm(53.08 h)	285.95, 590.88, 22.510
861.8	†100	^{256}Es(7.6 h)	231.1, 172.6, 1092.9
861.9 *2*	†0.00034	^{208}Po(2.898 y)	291.7, 570.4, 601.6
863.935 *18*	0.683 *11*	^{58}Co(70.82 d)	810.764, 1674.679
865.09 *12*	0.584 *18*	^{73}Se(7.15 h)	360.80, 67.03, 510
868.5 *4*	0.0120 *5*	^{85}Sr(64.84 d)	514.0067, 151.159, 362.81
869.60 *3*	0.317 *8*	^{95}Tc(20.0 h)	765.794, 1073.71, 947.67
871.082 *18*	100	^{94}Nb(2.03×10^4 y)	702.626
871.082 *18*	100	^{94}Tc(293 m)	702.626, 849.74, 916.10
872.14 *3*	11.9 *9*	^{69}Ge(39.05 h)	1107.01, 574.17, 1336.72
874.51 *2*	0.164 *3*	^{135}La(19.5 h)	480.51, 587.83, 220.94
874.813 *13*	6.29 *6*	^{185}Os(93.6 d)	646.116, 880.523, 717.424
875.329 *11*	4.51 *10*	^{133}I(20.8 h)	529.872, 1298.223, 510.530
879.383 *3*	30.01 *18*	^{160}Tb(72.3 d)	298.580, 966.171, 1177.962
879.383 *3*	†65.9 *23*	^{160}Ho(5.02 h)	728.18, 962.317, 966.171
879.876 *13*	0.754 *17*	^{126}I(13.11 d)	388.633, 491.243
880.523 *13*	5.17 *6*	^{185}Os(93.6 d)	646.116, 874.813, 717.424
880.8 *1*	2.19 *11*	^{251}Fm(5.30 h)	453.1, 405.6, 349.9
881.01 *5*	66.2 *7*	^{206}Bi(6.243 d)	803.10, 516.18, 1718.70
881.610 *3*	69	^{84}Rb(32.77 d)	1897.761, 1016.162
883.24 *4*	9.6 *6*	^{234}Pa(6.70 h)	131.30, 946.00, 569.5
884.685 *3*	72.2 *3*	^{110}Ag(249.79 d)	657.7622, 937.493, 1384.300
884.685 *3*	92.9 *19*	^{110}In(4.9 h)	657.7622, 937.493, 707.40
887.19 *7*	0.0255 *12*	^{74}As(17.77 d)	595.847, 608.353, 1204.208
888.80 *5*	25.1 *4*	^{240}Am(50.8 h)	987.76, 98.860, 42.824
889.277 *3*	99.984 *1*	^{46}Sc(83.79 d)	1120.545, 2010
889.753 *21*	5.36 *14*	^{169}Lu(34.06 h)	960.622, 191.2137, 1449.74
891.5 *10*	†100 *11*	^{244}Bk(4.35 h)	217.6, 921.5, 490.5
893.73 *3*	66 *3*	^{145}Eu(5.93 d)	653.512, 1658.53, 1997.00
894.351 *12*	19.8 *3*	^{232}Pa(1.31 d)	969.315, 150.059, 453.655
894.757 *6*	15.6 *3*	^{184}Re(38.0 d)	903.279, 792.071, 111.208
896.28 *6*	0.47	^{209}Po(102 y)	
896.9 *3*	13	^{203}Bi(11.76 h)	820.3, 825.2, 1847.4
897.848 *7*	28 *8*	^{244}Am(10.1 h)	743.971, 153.863, 99.383
898.042 *3*	93.7 *3*	^{88}Y(106.65 d)	1836.063, 2734.086, 850.647
898.68 *10*	5.8 *3*	^{230}Pa(17.4 d)	951.95, 918.48, 454.95
899.15 *3*	98 *8*	^{204}Bi(11.22 h)	374.72, 984.02, 911.78
899.43	0.0515 *25*	^{42}K(12.360 h)	1524.70, 312.6, 1922.18
900.724 *20*	29.8 *4*	^{172}Lu(6.70 d)	1093.657, 181.528, 810.064
903.279 *7*	37.9 *6*	^{184}Re(38.0 d)	792.071, 111.208, 894.757
907.56 *11*	5.7 *3*	^{201}Pb(9.33 h)	331.19, 361.27, 945.96
908.96 *4*	†0.010	^{89}Sr(50.53 d)	
908.96 *4*	100	^{89}Zr(78.41 h)	1713.06, 1744.52, 1657.28
909.847 *18*	0.0703 *15*	^{121}Te(154 d)	1102.149, 37.138, 998.291
911.205 *4*	26.6 *7*	^{228}Ac(6.15 h)	968.971, 338.322, 964.770
911.205 *4*	4.19 *7*	^{228}Pa(22 h)	463.005, 964.770, 968.971
911.78 *7*	13.5 *16*	^{204}Bi(11.22 h)	899.15, 374.72, 984.02
911.79 *9*	16.95 *24*	^{207}Po(5.80 h)	992.33, 742.64, 405.75
912.73 *9*	1.78 *10*	^{92}Nb(10.15 d)	934.46, 1847.27, 1132.24
912.95 *4*	4.79 *18*	^{187}Ir(10.5 h)	427.12, 400.89, 610.68
914.6 *5*	20.0 *11*	^{129}Sb(4.40 h)	812.8, 544.7, 1030.1
914.85 *3*	11.46 *9*	^{148}Pm(5.370 d)	1465.12, 550.284, 611.293
915.55 *5*	4.13 *16*	^{125}Sn(9.64 d)	1067.10, 1089.15, 822.48
916.10 *15*	7.6 *4*	^{94}Tc(293 m)	871.082, 702.626, 849.74
918.48 *10*	8.2 *4*	^{230}Pa(17.4 d)	951.95, 454.95, 898.68
920.932 *9*	32.0 *8*	^{184}Ta(8.7 h)	414.03, 252.848, 111.208
920.932 *9*	8.14 *12*	^{184}Re(169 d)	252.848, 216.548, 161.269
921.17 *30*	0.210 *16*	^{150}Eu(12.8 h)	333.971, 406.52, 1165.739
921.5 *10*	†19 *3*	^{244}Bk(4.35 h)	891.5, 217.6, 490.5
923.98 *2*	2.86 *9*	^{238}Np(2.117 d)	984.45, 1028.54, 1025.87
924.12 *5*	2.41 *16*	^{252}Es(471.7 d)	785.09, 139.03, 102.32
925.8 *2*	3.84 *3*	^{91}Sr(9.63 h)	1024.3, 749.8, 652.9
929.01 *7*	20.2 *8*	^{147}Gd(38.06 h)	229.32, 396.00, 370.0
931.3 *2*	75	^{55}Co(17.53 h)	477.2, 1408.4, 1316.4
931.34 *2*	0.545 *20*	^{188}Re(16.98 h)	155.032, 632.99, 477.99
932.37 *15*	6.7 *10*	^{193}Hg(11.8 h)	257.97, 407.63, 573.25
933.8 *7*	2.000 *6*	^{115}Cd(44.6 d)	1290.580, 484.470, 1132.570
934.46 *5*	99	^{92}Nb(10.15 d)	912.73, 1847.27, 1132.24
934.46 *5*	100	^{92}Nb(3.47×10^7 y)	561.03
935.538 *11*	†94.9 *3*	^{52}Mn(5.591 d)	1434.068, 744.233, 1333.649
936.7 *4*	2.20 *6*	^{99}Rh(4.7 h)	340.71, 617.8, 1261.2
937.493 *4*	34.13 *11*	^{110}Ag(249.79 d)	657.7622, 884.685, 1384.300
937.493 *4*	68.4 *14*	^{110}In(4.9 h)	657.7622, 884.685, 707.40
938.70 *2*	0.599 *18*	^{194}Ir(19.15 h)	328.455, 293.545, 645.157
941.72 *5*	38.3 *10*	^{28}Mg(20.91 h)	30.6383, 1342.27, 400.56
944.09 *5*	44	^{158}Tb(180 y)	962.06, 79.5104, 181.930
944.104 *7*	7.76 *9*	^{48}V(15.9735 d)	983.517, 1312.096, 2240.375
945.96 *8*	7.4 *6*	^{201}Pb(9.33 h)	331.19, 361.27, 907.56
946.00 *3*	13.4 *8*	^{234}Pa(6.70 h)	131.30, 883.24, 569.5
946 *2*	†80	^{243}Bk(4.5 h)	755, 840, 87.4
947.1 *1*	2.09 *11*	^{93}Y(10.18 h)	266.9, 1917.8, 680.2
947.67 *2*	1.951 *19*	^{95}Tc(20.0 h)	765.794, 1073.71, 869.60
949.82 *3*	0.120 *10*	^{93}Mo(6.85 h)	689.07, 541.32, 385.31
951.95 *5*	1.65 *14*	^{230}Pa(17.4 d)	918.48, 454.95, 898.68
953.42 *16*	3.6 *9*	^{181}Re(19.9 h)	365.57, 360.70, 639.30
959.70 *7*	0.069 *6*	^{202}Tl(12.23 d)	439.59, 520.11
960.622 *20*	23.4 *5*	^{169}Lu(34.06 h)	191.2137, 1449.74, 889.753
962.06 *4*	20.3 *4*	^{158}Tb(180 y)	944.09, 79.5104, 181.930
962.317 *4*	†59.1 *23*	^{160}Ho(5.02 h)	728.18, 879.383, 966.171
963.37 *1*	12.01 *10*	^{152}Eu(9.274 h)	841.586, 121.7824, 1389.00
964.131 *9*	14.34 *19*	^{152}Eu(13.542 y)	121.7824, 1408.011, 1112.116
964.770 *10*	5.11 *13*	^{228}Ac(6.15 h)	911.205, 968.971, 338.322
964.770 *10*	4.25 *13*	^{228}Pa(22 h)	911.205, 463.005, 968.971
966.171 *3*	25.21 *15*	^{160}Tb(72.3 d)	879.383, 298.580, 1177.962
966.171 *3*	†54.5 *23*	^{160}Ho(5.02 h)	728.18, 879.383, 962.317
968.971 *10*	16.2 *3*	^{228}Ac(6.15 h)	911.205, 338.322, 964.770
968.971 *10*	3.88 *19*	^{228}Pa(22 h)	911.205, 463.005, 964.770
969.315 *11*	41.6 *19*	^{232}Pa(1.31 d)	894.351, 150.059, 453.655
970.38 *3*	0.604 *20*	^{152}Eu(9.274 h)	344.281, 1314.67, 271.135
978.969 *15*	0.256 *5*	^{145}Pr(5.984 h)	748.278, 675.795, 72.500
982.2 *2*	26.4 *8*	^{139}Nd(5.50 h)	113.94, 737.96, 708.06
983.517 *5*	100.1 *3*	^{48}Sc(43.67 h)	1312.096, 1037.599, 175.361
983.517 *5*	99.98 *20*	^{48}V(15.9735 d)	1312.096, 944.104, 2240.375
984.02 *2*	59 *3*	^{204}Bi(11.22 h)	899.15, 374.72, 911.78
984.45 *2*	27.8	^{238}Np(2.117 d)	1028.54, 1025.87, 923.98
985.10 *10*	0.896 *18*	^{170}Lu(2.00 d)	84.2551, 1280.25, 2041.88
987.62 *3*	0.585 *16*	^{205}Bi(15.31 d)	1764.36, 703.44, 1043.72
987.76 *6*	73.2 *10*	^{240}Am(50.8 h)	888.80, 98.860, 42.824
992.128 *13*	0.546 *11*	^{174}Lu(142 d)	272.918, 176.645, 76.471
992.33 *9*	59.3 *7*	^{207}Po(5.80 h)	742.64, 911.79, 405.75
996.82	0.0014 *2*	^{24}Na(14.9590 h)	1368.633, 2754.028, 3866.19
998.291 *11*	0.0796 *18*	^{121}Te(154 d)	1102.149, 37.138, 909.847
1001.85	1.2	^{44}Sc(58.6 h)	1126.08, 1157.031
1004.725 *6*	18.01 *5*	^{154}Eu(8.593 y)	123.071, 1274.436, 723.304
1013.808 *11*	20.20 *17*	^{148}Pm(41.29 d)	550.284, 629.987, 725.673
1016.162 *13*	0.349 *10*	^{84}Rb(32.77 d)	881.610, 1897.761
1021.00 *20*	0.00193 *10*	^{123}Sn(129.2 d)	1088.64, 1030.23, 160.33
1023.1 *2*	99.4 *3*	^{120}Sb(5.76 d)	1171.3, 197.3, 89.9
1024.3 *1*	33	^{91}Sr(9.63 h)	749.8, 652.9, 925.8
1025.87 *2*	9.6 *5*	^{238}Np(2.117 d)	984.45, 1028.54, 923.98
1028.54 *2*	20.3 *8*	^{238}Np(2.117 d)	984.45, 1025.87, 923.98
1030.1 *6*	12.6 *8*	^{129}Sb(4.40 h)	812.8, 914.6, 544.7
1030.23 *10*	0.0310 *12*	^{123}Sn(129.2 d)	1088.64, 1021.00, 160.33
1031.70 *3*	0.125 *5*	^{132}Cs(6.479 d)	464.55, 567.14
1032.26 *10*	32.9 *7*	^{206}Po(8.8 d)	511.36, 286.410, 807.38
1034.85 *5*	6.02 *6*	^{183}Os(9.9 h)	1101.94, 1107.92, 484.40
1037.599 *26*	97.6 *5*	^{48}Sc(43.67 h)	1312.096, 983.517, 175.361

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
1039.30 *5*	37	^{66}Ga(9.49 h)	2752.01, 833.50, 2189.85
1039.902 *17*		^{52}Fe(8.275 h)	168.684, 377.738
1043.72 *3*	1.291 *9*	^{205}Bi(15.31 d)	1764.36, 703.44, 987.62
1044.002 *5*	32.068 *8*	^{82}Rb(6.472 h)	776.517, 554.348, 619.106
1045.83 *8*	29.6 *10*	^{106}Ag(8.28 d)	511.842, 717.24, 450.97
1048.073 *20*	†80 *3*	^{136}Cs(13.16 d)	818.514, 340.547, 1235.362
1050.69 *3*	97 *6*	^{118}Sb(5.00 h)	1229.68, 253.68, 41.0
1050.73 *4*	0.984 *21*	^{72}As(26.0 h)	834.01, 629.95, 1463.95
1057.8 *1*	0.29 *3*	^{177}Ta(56.56 h)	112.9498, 208.3664, 745.9
1063.662 *4*	74.5 *2*	^{207}Bi(31.55 y)	569.702, 1770.237, 1442.20
1065.04 *8*	0.0164 *21*	^{174}Lu(3.31 y)	76.471, 1241.847, 1318.296
1067.10 *5*	10	^{125}Sn(9.64 d)	1089.15, 822.48, 915.55
1071.8 *1*	†46 *5*	^{171}Hf(12.1 h)	122.0, 662.2, 347.18
1073.71 *2*	3.74 *4*	^{95}Tc(20.0 h)	765.794, 947.67, 869.60
1076.64 *4*	9	^{86}Rb(18.631 d)	
1076.64 *4*	83	^{86}Y(14.74 h)	627.72, 1153.01, 777.35
1077.043 *6*	6.15 *19*	^{147}Eu(24.1 d)	197.299, 121.220, 677.516
1081.40 *6*	5.8 *4*	^{246}Bk(1.80 d)	798.80, 833.60, 1124.29
1087.6904 *29*	0.159 *2*	^{198}Au(2.69517 d)	411.8044, 675.8874
1088.64 *10*	0.6	^{123}Sn(129.2 d)	1030.23, 1021.00, 160.33
1089.15 *10*	4.59 *16*	^{125}Sn(9.64 d)	1067.10, 822.48, 915.55
1089.700 *15*	1.710 *21*	^{152}Eu(13.542 y)	344.281, 778.91, 411.115
1089.8	>2.8	^{155}Dy(9.9 h)	226.918, 184.564, 1090.0
1090.0	>2.8	^{155}Dy(9.9 h)	226.918, 184.564, 1089.8
1091.331 *17*	0.149 *6*	^{196}Au(6.183 d)	355.684, 332.983, 521.175
1092.9	†47	^{256}Es(7.6 h)	861.8, 231.1, 172.6
1093.657 *13*	6.0 *3*	^{172}Tm(63.6 h)	78.7435, 1387.093, 1529.72
1093.657 *13*	62.5 *13*	^{172}Lu(6.70 d)	900.724, 181.528, 810.064
1095.490 *10*	4.08 *6*	^{71}As(65.28 h)	174.954, 499.876, 326.785
1099.251 *4*	56.5 *15*	^{59}Fe(44.503 d)	1291.596, 192.349, 142.652
1101.94 *4*	49.0 *5*	^{183}Os(9.9 h)	1107.92, 1034.85, 484.40
1102.149 *18*	2.54 *6*	^{121}Te(154 d)	37.138, 998.291, 909.847
1103.16 *4*	†2.81 *10*	^{102}Rh(207 d)	475.070, 628.05, 468.59
1107.01 *6*	36	^{69}Ge(39.05 h)	574.17, 872.14, 1336.72
1107.92 *4*	22.36 *20*	^{183}Os(9.9 h)	1101.94, 1034.85, 484.40
1112.116 *17*	13.55 *19*	^{152}Eu(13.542 y)	121.7824, 1408.011, 964.131
1115.546 *4*	50.60 *24*	^{65}Zn(244.26 d)	344.95, 770.6
1120.545 *4*	99.987 *1*	^{46}Sc(83.79 d)	889.277, 2010
1121.3007 *5*	34.9 *1*	^{182}Ta(114.43 d)	67.75001, 1221.4066, 1189.0503
1121.3007 *5*	32	^{182}Re(12.7 h)	67.75001, 1221.4066, 1189.0503
1121.3007 *5*	22.0 *6*	^{182}Re(64.0 h)	229.3220, 67.75001, 1221.4066
1124.29 *4*	4.4	^{246}Bk(1.80 d)	798.80, 1081.40, 833.60
1125.46 *4*	14.9 *3*	^{131}Te(30 h)	773.67, 852.21, 793.75
1126.08	1.2	^{44}Sc(58.6 h)	1001.85, 1157.031
1126.965 *21*	15.2 *12*	^{96}Tc(4.28 d)	778.224, 849.929, 812.581
1129.224 *15*	92.7 *4*	^{90}Nb(14.60 h)	2318.968, 141.178, 2186.242
1129.65	2.4 *2*	^{26}Al(7.4×10^5 y)	1808.63, 2938.20
1131.511 *18*	22.74 *14*	^{135}I(6.57 h)	1260.409, 1678.027, 1457.56
1132.24 *8*	0.005	^{92}Nb(10.15 d)	934.46, 912.73, 1847.27
1132.570 *10*	0.0856 *10*	^{115}Cd(44.6 d)	933.8, 1290.580, 484.470
1136.75 *7*	7.66 *7*	^{119}Te(4.70 d)	153.59, 1212.73, 270.53
1140.55 *3*	0.7	^{122}Sb(2.70 d)	
1147.97 *8*	2.61 *10*	^{97}Zr(16.91 h)	743.36, 507.64, 355.40
1148.9 *4*	4.3 *4*	^{109}In(4.2 h)	203.5, 623.7, 426.25
1153.01 *4*	30.5 *9*	^{86}Y(14.74 h)	1076.64, 627.72, 777.35
1153.67 *10*	6.79 *6*	^{156}Eu(15.19 d)	811.79, 88.9667, 1230.68
1157.031	1.2	^{44}Sc(58.6 h)	1001.85, 1126.08
1159.28 *9*	25	^{176}Ta(8.09 h)	88.34, 1224.93, 201.83
1165.739 *27*	0.257 *24*	^{150}Eu(12.8 h)	333.971, 406.52, 921.17
1171.3 *2*	100	^{120}Sb(5.76 d)	1023.1, 197.3, 89.9
1173.237 *4*	99.90 *2*	^{60}Co(5.2714 y)	1332.501, 346.93, 826.06
1177.962 *4*	15.07 *9*	^{160}Tb(72.3 d)	879.383, 298.580, 966.171
1181.39 *1*	99.3 *25*	^{210}At(8.1 h)	245.31, 1483.39, 1436.70
1189.0503 *5*	16.23 *4*	^{182}Ta(114.43 d)	67.75001, 1121.3007, 1221.4066
1189.0503 *5*	15.0 *6*	^{182}Re(12.7 h)	67.75001, 1121.3007, 1221.4066
1200.6 *2*	9.7 *10*	^{198}Tl(5.3 h)	411.8044, 675.8874, 636.4
1204.208 *12*	0.285 *18*	^{74}As(17.77 d)	595.847, 608.353, 887.19
1204.77 *6*	0.30	^{91}Y(58.51 d)	
1204.77 *6*	2.9	^{91}Nb(60.86 d)	
1205.717 *14*	29.9 *17*	^{200}Tl(26.1 h)	367.943, 579.298, 828.320
1212.73 *7*	66	^{119}Te(4.70 d)	153.59, 270.53, 1136.75
1212.94 *4*	1.44 *9*	^{76}As(26.32 h)	559.101, 657.041, 1216.104
1216.104 *20*	3.42 *18*	^{76}As(26.32 h)	559.101, 657.041, 1212.94
1216.104 *20*	8.8 *4*	^{76}Br(16.2 h)	559.101, 657.041, 1853.67
1221.4066 *5*	26.98 *10*	^{182}Ta(114.43 d)	67.75001, 1121.3007, 1189.0503
1221.4066 *5*	24.8 *10*	^{182}Re(12.7 h)	67.75001, 1121.3007, 1189.0503
1221.4066 *5*	17.4 *4*	^{182}Re(64.0 h)	229.3220, 67.75001, 1121.3007
1222.36 *7*	31.00 *12*	^{156}Tb(5.35 d)	534.318, 199.2132, 88.9667
1224.93 *7*	6	^{176}Ta(8.09 h)	1159.28, 88.34, 201.83
1229.68 *3*	100	^{118}Sb(5.00 h)	253.68, 1050.69, 41.0
1230.68 *6*	7.98 *3*	^{156}Eu(15.19 d)	811.79, 88.9667, 1153.67
1235.362 *23*	†20.1 *7*	^{136}Cs(13.16 d)	818.514, 1048.073, 340.547
1238.282 *7*	67.6 *4*	^{56}Co(77.27 d)	846.771, 2598.459, 1771.351
1241.847 *6*	5.14 *10*	^{174}Lu(3.31 y)	76.471, 1318.296, 1065.04
1256.901 *19*	0.80 *4*	^{122}Sb(2.70 d)	564.119, 692.794, 793.278
1260.409 *17*	28.90 *17*	^{135}I(6.57 h)	1131.511, 1678.027, 1457.56
1261.2 *4*	11	^{99}Rh(4.7 h)	340.71, 617.8, 936.7
1269.06 *10*	0.0018 *6*	^{74}As(17.77 d)	634.78, 634.26
1273.540 *16*	14.9 *3*	^{166}Tm(7.70 h)	778.817, 2052.36, 184.410
1274.436 *6*	35.19 *18*	^{154}Eu(8.593 y)	123.071, 723.304, 1004.725
1274.436 *6*	10.5 *7*	^{154}Tb(21.5 h)	123.071, 2187.10, 722.12
1274.53 *2*	99.944 *14*	^{22}Na(2.6019 y)	
1280.25 *10*	3.450 *22*	^{170}Lu(2.00 d)	84.2551, 2041.88, 985.10
1290.580 *10*	0.890 *14*	^{115}Cd(44.6 d)	933.8, 484.470, 1132.570
1291.596 *7*	43.2 *11*	^{59}Fe(44.503 d)	1099.251, 192.349, 142.652
1297.09 *10*	74	^{47}Ca(4.536 d)	489.23, 807.86, 767.1
1298.223 *11*	2.35 *5*	^{133}I(20.8 h)	529.872, 875.329, 510.530
1312.096 *6*	100.1 *5*	^{48}Sc(43.67 h)	983.517, 1037.599, 175.361
1312.096 *6*	97.5 *8*	^{48}V(15.9735 d)	983.517, 944.104, 2240.375
1314.67 *1*	0.956 *15*	^{152}Eu(9.274 h)	344.281, 970.38, 271.135
1316.4 *2*	7.09 *10*	^{55}Co(17.53 h)	931.3, 477.2, 1408.4
1317.927 *7*	0.585 *20*	^{132}Cs(6.479 d)	667.718, 630.19, 505.79
1318.296 *10*	0.035 *3*	^{174}Lu(3.31 y)	76.471, 1241.847, 1065.04
1332.501 *5*	99.9820 *10*	^{60}Co(5.2714 y)	1173.237, 346.93, 826.06
1333.649 *17*	†5.07 *3*	^{52}Mn(5.591 d)	1434.068, 935.538, 744.233
1336.72 *6*	4.5 *4*	^{69}Ge(39.05 h)	1107.01, 574.17, 872.14
1342.27 *4*	52.6 *16*	^{28}Mg(20.91 h)	30.6383, 941.72, 400.56
1345.77 *6*	0.473 *10*	^{64}Cu(12.700 h)	
1347.33 *1*	0.47	^{139}Pr(4.41 h)	1630.67, 255.11, 1375.56
1362.9 *1*	32.5 *18*	^{211}Rn(14.6 h)	674.1, 678.4, 442.2
1368.633	100	^{24}Na(14.9590 h)	2754.028, 3866.19, 996.82
1375.56 *3*	0.154 *7*	^{139}Pr(4.41 h)	1347.33, 1630.67, 255.11
1377.63 *3*	81.7 *16*	^{57}Ni(35.60 h)	127.164, 1919.52, 1757.55
1379.40 *6*	0.93 *3*	^{166}Ho(26.83 h)	80.574, 1581.89, 1662.48
1384.300 *5*	24.12 *8*	^{110}Ag(249.79 d)	657.7622, 884.685, 937.493
1387.093 *4*	5.6 *3*	^{172}Tm(63.6 h)	78.7435, 1093.657, 1529.72
1389.00 *1*	0.770 *23*	^{152}Eu(9.274 h)	841.586, 963.37, 121.7824
1408.011 *14*	20.87 *6*	^{152}Eu(13.542 y)	121.7824, 964.131, 1112.116
1408.4 *2*	16.88 *8*	^{55}Co(17.53 h)	931.3, 477.2, 1316.4
1413.19 *8*	1.09 *8*	^{119}Te(16.03 h)	644.01, 699.85, 1749.65
1419.81 *8*	46 *3*	^{154}Tb(22.7 h)	247.925, 346.643, 123.071
1420.17 *2*	0.295 *6*	^{126}I(13.11 d)	666.331, 753.819, 2045.17
1434.068 *14*	†100.0 *3*	^{52}Mn(5.591 d)	935.538, 744.233, 1333.649
1435.36 *4*	6.38 *25*	^{234}Np(4.4 d)	1558.31, 1527.21, 1601.80
1435.795 *10*	66	^{138}La(1.05×10^{11} y)	
1436.70 *2*	29.0 *13*	^{210}At(8.1 h)	1181.39, 245.31, 1483.39
1442.20 *9*	0.130 *3*	^{207}Bi(31.55 y)	569.702, 1063.662, 1770.237
1449.74 *4*	9.92 *21*	^{169}Lu(34.06 h)	960.622, 191.2137, 889.753
1457.56 *3*	8.73 *6*	^{135}I(6.57 h)	1260.409, 1131.511, 1678.027
1460.830	11	^{40}K(1.277×10^9 y)	
1463.95 *15*	1.107 *19*	^{72}As(26.0 h)	834.01, 629.95, 1050.73
1465.12 *3*	22	^{148}Pm(5.370 d)	550.284, 914.85, 611.293
1468.91 *4*	6.3 *4*	^{194}Au(38.02 h)	328.455, 293.545, 2043.67
1483.39 *2*	46.5 *20*	^{210}At(8.1 h)	1181.39, 245.31, 1436.70
1509.49 *4*	2.989 *24*	^{124}I(4.18 d)	602.730, 1690.980, 722.786
1524.70	18	^{42}K(12.360 h)	312.6, 899.43, 1922.18
1527.21 *4*	11.2 *5*	^{234}Np(4.4 d)	1558.31, 1601.80, 1435.36
1529.72 *4*	5.1 *3*	^{172}Tm(63.6 h)	78.7435, 1093.657, 1387.093
1533.8 *2*	6.05 *15*	^{146}Eu(4.59 d)	747.2, 633.03, 634.07
1553.4 *2*	21	^{100}Rh(20.8 h)	539.59, 2376.1, 822.6
1553.768 *8*	83	^{50}V(1.4×10^{17} y)	
1558.31 *4*	18.72 *20*	^{234}Np(4.4 d)	1527.21, 1601.80, 1435.36
1575.85 *15*	3.7	^{142}Pr(19.12 h)	508.8
1581.89 *8*	0.187 *4*	^{166}Ho(26.83 h)	80.574, 1379.40, 1662.48
1596.210 *35*	95	^{140}La(1.6781 d)	487.021, 815.772, 328.762
1601.80 *4*	9.1 *4*	^{234}Np(4.4 d)	1558.31, 1527.21, 1435.36
1630.67 *2*	0.343 *10*	^{139}Pr(4.41 h)	1347.33, 255.11, 1375.56
1657.28 *14*	0.107 *4*	^{89}Zr(78.41 h)	908.96, 1713.06, 1744.52
1658.53 *5*	14.9 *8*	^{145}Eu(5.93 d)	893.73, 653.512, 1997.00
1662.48 *8*	0.120 *2*	^{166}Ho(26.83 h)	80.574, 1379.40, 1581.89
1674.679 *36*	0.518 *8*	^{58}Co(70.82 d)	810.764, 863.935
1678.027 *21*	9.62 *20*	^{135}I(6.57 h)	1260.409, 1131.511, 1457.56
1690.980 *4*	47.3 *6*	^{124}Sb(60.20 d)	602.730, 722.786, 645.855
1690.980 *4*	10.41 *12*	^{124}I(4.18 d)	602.730, 722.786, 1509.49
1713.06 *24*	0.763 *13*	^{89}Zr(78.41 h)	908.96, 1744.52, 1657.28
1718.70 *7*	31.8 *4*	^{206}Bi(6.243 d)	803.10, 881.01, 516.18

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays
1744.52 *15*	0.129 *3*	^{89}Zr(78.41 h)	908.96, 1713.06, 1657.28
1749.65 *8*	3.95 *25*	^{119}Te(16.03 h)	644.01, 699.85, 1413.19
1757.55 *3*	5.75 *16*	^{57}Ni(35.60 h)	1377.63, 127.164, 1919.52
1764.36 *4*	1.368 *6*	^{205}Bi(15.31 d)	703.44, 987.62, 1043.72
1770.237 *10*	6.87 *4*	^{207}Bi(31.55 y)	569.702, 1063.662, 1442.20
1771.351 *16*	15.69 *15*	^{56}Co(77.27 d)	846.771, 1238.282, 2598.459
1808.63	99.73 *8*	^{26}Al(7.4×10^5 y)	1129.65, 2938.20
1828.8	10	^{185}Ir(14.4 h)	254.4, 60.0, 97.4
1836.063 *12*	99.2 *3*	^{88}Y(106.65 d)	898.042, 2734.086, 850.647
1847.27 *8*	0.85 *4*	^{92}Nb(10.15 d)	934.46, 912.73, 1132.24
1847.4 *3*	11.4 *6*	^{203}Bi(11.76 h)	820.3, 825.2, 896.9
1853.67 *5*	14.7 *7*	^{76}Br(16.2 h)	559.101, 657.041, 1216.104
1897.761 *14*	0.738 *21*	^{84}Rb(32.77 d)	881.610, 1016.162
1909.91 *4*	9.0 *6*	^{132}La(4.8 h)	464.55, 567.14, 663.07
1917.8 *1*	1.55 *3*	^{93}Y(10.18 h)	266.9, 947.1, 680.2
1919.52 *5*	12.26 *25*	^{57}Ni(35.60 h)	1377.63, 127.164, 1757.55
1922.18	0.041 *4*	^{42}K(12.360 h)	1524.70, 312.6, 899.43
1997.00 *4*	7.2 *4*	^{145}Eu(5.93 d)	893.73, 653.512, 1658.53
2010	0.000013 *10*	^{46}Sc(83.79 d)	1120.545, 889.277
2041.88 *10*	1.434 *18*	^{170}Lu(2.00 d)	84.2551, 1280.25, 985.10
2043.67 *5*	3.54 *18*	^{194}Au(38.02 h)	328.455, 293.545, 1468.91
2045.17 *2*	0.0046 *3*	^{126}I(13.11 d)	666.331, 753.819, 1420.17
2052.36 *3*	17.2 *3*	^{166}Tm(7.70 h)	778.817, 184.410, 1273.540
2123.8 *2*	5.0 *3*	^{85}Y(4.86 h)	231.67, 767.40, 535.61
2186.242 *25*	1.4×10^{-6} *3*	^{90}Y(64.10 h)	
2186.242 *25*	17.96 *16*	^{90}Nb(14.60 h)	1129.224, 2318.968, 141.178
2187.10 *16*	9.9 *6*	^{154}Tb(21.5 h)	123.071, 1274.436, 722.12
2189.85 *6*	5.60 *7*	^{66}Ga(9.49 h)	1039.30, 2752.01, 833.50
2201.69 *5*	25.9 *5*	^{72}Ga(14.10 h)	834.01, 629.95, 2507.82
2214.62 *20*	18.7 *13*	^{188}Ir(41.5 h)	155.032, 632.99, 477.99
2236.89 *17*	5.6 *6*	^{192}Au(4.94 h)	316.50791, 295.95827, 612.46564
2240.375 *19*	2.41 *4*	^{48}V(15.9735 d)	983.517, 1312.096, 944.104
2318.968 *10*	82.03 *16*	^{90}Nb(14.60 h)	1129.224, 141.178, 2186.242
2376.1 *3*	35.3 *24*	^{100}Rh(20.8 h)	539.59, 1553.4, 822.6
2507.82 *6*	12.78 *23*	^{72}Ga(14.10 h)	834.01, 2201.69, 629.95
2598.459 *13*	17.28 *15*	^{56}Co(77.27 d)	846.771, 1238.282, 1771.351
2614.533 *13*	100	^{208}Bi(3.68×10^5 y)	
2734.086 *13*	0.71 *7*	^{88}Y(106.65 d)	1836.063, 898.042, 850.647
2752.01 *15*	23.38 *22*	^{66}Ga(9.49 h)	1039.30, 833.50, 2189.85
2754.028	99.944 *4*	^{24}Na(14.9590 h)	1368.633, 3866.19, 996.82
2938.20	0.27 *3*	^{26}Al(7.4×10^5 y)	1808.63, 1129.65
3866.19	0.052 *4*	^{24}Na(14.9590 h)	1368.633, 2754.028, 996.82