Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
427.2	0.6	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
427.2 *2*	0.12 *4*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 427.20 *20*	0.0085 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
427.2 *4*	0.05 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 427.25 *4*	0.063 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
427.27 *9*	2.2 *4*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
427.30 *10*	1.96 *11*	^{99}Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
427.3	>0.27	^{109}Rh(80 s)	326.868(54), 426.135(7.7), 178.034(7.6)
427.33 *6*	0.221 *17*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
427.35 *9*	0.129 *18*	^{106}In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
427.355 *15*	0.160 *15*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
427.4 *4*	0.93 *19*	^{97}Y(1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
427.4 *3*	0.78 *13*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
427.4 *5*	†8.5 *19*	^{195}Pb(15 m)	883.1(†100), 393.7(†42), 871.0(†36)
427.4 *4*	3.1×10^{-5} *8*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
427.4 *4*	†20 *5*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 427.4 *4*	0.009 *2*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
427.401 *15*	0.62 *5*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
427.41 *13*	0.162 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
427.5 *4*	0.18 *7*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
• 427.56 *12*	0.0355 *21*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
• 427.570 *17*	0.0955 *9*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
427.6 *2*	0.96 *6*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
427.6 *2*	†2.1 *4*	^{153}Yb(4.2 s)	547.4(†100), 674.1(†61), 369.6(†32)
427.6 *2*	>0.035	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
427.65 *8*	0.098 *6*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
427.65 *5*	0.21 *4*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
427.672 *24*	3.5 *4*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
427.7 *4*	0.073 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
427.7 *2*	†32.7 *20*	^{202}Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)
427.8 *2*	0.66 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
• 427.81 *3*	0.059 *4*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
427.83 *6*	0.53 *11*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
• 427.875 *6*	30	^{125}Sb(2.7582 y)	600.600(17.86), 635.954(11.31), 463.365(10.493)
427.883 *4*	4.4 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 377.385(3.93)
427.9 *2*	8.0 *9*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
• 427.92 *4*	0.047 *10*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
427.94 *4*	0.083 *11*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
427.94 *4*	0.00034 *9*	^{130}I(9.0 m)	536.09(16), 586.05(1.07), 1614.10(0.447)
428 *1*	1.6	^{125}Cs(45 m)	526(24), 111.8(9), 412(5)
428.0 *2*	†100 *29*	^{194}Tl(33.0 m)	636.5(†23), 645.20(†13), 1040.3(†5.6)
428.0 *2*	99 *5*	^{194}Tl(32.8 m)	636.5(99), 748.9(76), 734.9(22)
428.0 *7*	0.70 *12*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
428.0 *5*	0.011 *3*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
428.03 *21*	0.15 *3*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
• 428.098 *9*	1.0×10^{-6} *1*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
428.1 *2*	0.25 *8*	^{143}Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
428.1 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
428.11 *6*	†83.7 *28*	^{126}Cd(0.506 s)	260.09(†100), 688.23(†5.9), 555.40(†4.8)
428.12 *9*	1.09 *13*	^{115}Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
428.15 *8*	†11.9 *16*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
428.20 *15*	4.6 *3*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
428.20 *4*	†5.5 *7*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)

• $t_{1/2}$>1 d

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
428.2 *2*	†362 *71*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
428.2 *3*	†13.8 *5*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
• 428.24 *7*	0.0034	^{147}Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
428.3 *3*	0.087 *16*	^{73}Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
428.3 *2*	†1.1 *3*	^{75}Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
428.3 *1*	0.11 *4*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
• 428.3 *5*	0.009	^{252}Es(471.7 d)	52.33(0.55), 64.42(0.274), 418.5(0.220)
428.35 *15*	0.19 *4*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
428.4 *1*	1.4 *3*	^{75}Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
428.4 *1*	31 *3*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 36.5(20.4)
428.4 *2*	0.08	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
428.41 *3*	7.4 *4*	^{123}Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
428.420 *13*	0.0121 *16*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
428.438 *22*	0.52 *5*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
428.438		^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
428.44 *11*	0.198 *18*	^{72}Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 428.44 *11*	0.069 *5*	^{72}As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
428.44 *13*	4.5 *3*	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
428.5 *5*	0.17 *4*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
428.5 *4*	0.11 *3*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
428.5 *3*		^{107}Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
428.53 *9*	0.0053 *8*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
428.53 *10*	0.37 *4*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
428.56 *9*	0.0706 *22*	^{106}Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
428.56 *9*	0.0077 *8*	^{106}Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
428.6 *5*	0.045 *9*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
428.615 *8*	>0.15	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
428.7 *2*	0.139 *23*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
• 428.7 *1*	0.0010 *5*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
428.7 *4*	0.14 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
428.71 *12*	0.22 *4*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
428.83 *7*	12.7 *10*	^{174}W(31 m)	35.42(14.1), 328.68(9.5), 378.54(8.3)
428.85 *20*	0.0146 *22*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
428.9 *2*	>0.017	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
• 428.94 *10*	0.0060 *6*	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
429	>0.0049	^{90}Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
429 *1*	†0.34 *14*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
429.0 *4*	0.50 *13*	^{160}Yb(4.8 m)	173.74(42.0), 215.78(20.2), 140.35(9.3)
429.0 *3*	†2.4 *5*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
429.03 *5*	2.21 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
429.04	0.024	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
429.07	†94 *3*	^{34}Si(2.77 s)	1178.5(†100), 1607.6(†56)
429.07 *2*	0.26 *8*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
• 429.1 *3*	0.016 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
429.1 *4*	0.45 *11*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
429.10 *20*	0.060 *14*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
429.12	0.034 *11*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
• 429.25 *15*	0.0066 *13*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
• 429.26 *5*	0.061 *10*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
429.3 *3*	3.6 *4*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
429.3 *6*	0.27 *5*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
429.3 *2*	6.06 *16*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
429.4 *3*	0.22 *3*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
429.4 *4*	†24 *3*	^{134}Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
429.4 *4*	†24 *3*	^{134}Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
429.4 *6*	0.3 *3*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
429.40 *16*	0.63 *5*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
429.44 *10*	0.66 *6*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
429.5 *4*	0.7	^{118}Pd(1.9 s)	125.4(34), 125.4(34), 224.2(20.1)
429.50 *10*	0.084 *25*	^{119}Te(16.03 h)	644.01(84), 699.85(10.1), 1749.65(3.95)
429.5 *2*	0.159 *24*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
429.51 *5*		^{193}Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
429.51 *5*	0.6 *1*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
429.6 *2*	0.114 *15*	^{143}Eu(2.63 m)	1107.3(8), 1536.8(3.29), 1912.7(2.13)
429.61 *9*	0.329 *18*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
429.64 *5*	13.3 *21*	^{106}Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 429.64 *5*	13.2 *4*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
429.7 *1*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
429.7 *1*	0.082 *7*	^{251}Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
429.7 *1*	8	^{255}Md(27 m)	
429.714 *15*	0.0089 *18*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
429.79 *4*	0.133 *6*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
429.80 *20*	†13.5 *16*	^{106}Mo(8.4 s)	465.70(†100), 54.00(†54), 618.60(†25)
429.8 *2*	†10.6 *11*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 429.8 *2*	0.0039	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
429.8 *2*	0.0017 *3*	^{239}Am(11.9 h)	277.599(15.0), 228.183(11.3), 209.753(3.50)
• 429.8 *2*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
429.82 *24*	0.53 *18*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
429.885 *20*	0.0775 *19*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
429.90 *15*	0.13 *3*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
429.93 *14*	0.15 *3*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
429.93 *3*	0.306 *20*	^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
• 429.94 *10*	†1.15×10^{4} *23*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^{9}), 33.195(†6000×10^{8})
430.0 *4*	†2.7 *3*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
430.0 *2*	†7.1 *14*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
430 *1*	0.006 *3*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
• 430 *1*	0.040	^{241}Cm(32.8 d)	471.805(71), 430.634(4.06), 132.413(3.86)
430.1	†13	^{107}Mo(3.5 s)	400.3(†100), 65.7(†>92), 384.4(†57.6)
• 430.187 *15*	4.30×10^{-6} *13*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
430.2 *1*	2.07 *5*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
430.20 *16*	0.042 *3*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
430.2 *2*	1.6	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
430.2 *3*	0.030 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
430.221 *17*	28	^{179}Re(19.5 m)	289.968(26.9), 1680.244(13.0), 415.411(10.6)
430.27 *2*	1.15 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
430.28 *21*	0.00033	^{115}Sb(32.1 m)	497.358(98), 489.27(1.3), 1236.52(0.58)
430.28 *3*	5.0 *3*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
430.3 *2*	†305 *86*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
430.30 *19*	1.80 *12*	^{186}Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
430.3 *1*	4.76 *24*	^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
430.32 *10*	4.08 *16*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
430.4 *5*	0.11 *3*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
430.4 *3*	†5.6 *8*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
430.48 *12*	18.3 *4*	^{144}Ba(11.5 s)	103.855(23.30), 172.828(15.4), 156.600(15.1)
430.48 *12*	0.30 *9*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
430.49 *3*	3.28 *15*	^{92}Sr(2.71 h)	1383.93(90), 953.31(3.52), 241.56(2.92)
430.5 *4*	0.99 *4*	^{86}Se(15.3 s)	2441.1(43.0), 2660.0(21.6), 48.3(15.4)
430.5 *3*	0.029 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
430.5 *3*	0.12 *3*	^{167}Ho(3.1 h)	346.547(56), 321.336(23.5), 237.873(5.0)
• 430.5 *5*	0.019 *6*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
• 430.53 *14*	4.74 *11*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
430.56 *7*	†61	^{197}Ir(5.8 m)	469.72(†100), 815.92(†45), 378.32(†38)
• 430.594 *21*	0.280 *14*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
430.60 *21*	0.0102 *5*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
430.6 *1*	0.058 *5*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
430.6 *2*	0.25 *5*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
430.6 *6*		^{131}Sn(56.0 s)	3267.5, 2470.5, 2039.25
430.6 *6*		^{131}Sn(58.4 s)	367.40, 285.0, 62.9
430.6 *6*	†1.0 *5*	^{131}Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
430.6 *3*	0.050 *19*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
• 430.634 *20*	4.06 *20*	^{241}Cm(32.8 d)	471.805(71), 132.413(3.86), 165.049(2.97)
• 430.634 *20*	0.0015 *3*	^{245}Bk(4.94 d)	205.879(0.040), 471.805(0.026), 164.8(0.0084)
430.70 *14*	0.131 *13*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
430.74 *10*	1.3 *3*	^{166}Hf(6.77 m)	78.76(41), 341.82(4.7), 407.91(4.5)
430.8	1.22 *6*	^{150}Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
430.8 *5*	0.017 *4*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
430.9 *2*	0.6	^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
430.9 *10*	0.25 *5*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
430.9 *3*	0.20 *5*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
430.9 *4*	0.023	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
431.0 *5*	9.2 *7*	^{76}Ga(32.6 s)	562.93(66), 545.51(26.0), 1108.41(15.8)
431	0.28 *11*	^{138}I(6.49 s)	588.825(56), 875.23(9.2), 2262.19(3.86)
431.0 *5*	0.07	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
431.0 *1*	0.74 *14*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
431.0 *1*	1.68 *25*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
431.02 *6*	0.0200 *22*	^{125}Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
431.02 *6*	0.16 *3*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
431.16 *10*	0.00144 *10*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
431.19 *20*	†0.48 *3*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
431.20 *4*	2.76 *10*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
431.2 *3*	2.5 *4*	^{179}Yb(8.0 m)	592.1(75), 612.3(35.4), 381.4(9.6)
• 431.281 *23*	0.0205 *8*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 431.29 *8*	0.0060 *6*	^{172}Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
• 431.297 *12*	0.0713 *14*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
431.3 *2*	0.28 *9*	^{76}Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
431.3 *2*	0.44 *8*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
431.3		^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
431.3 *1*	†94 *4*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
431.3	†0.8	^{193}Pb(5.8 m)	365.2(†100), 392.2(†20.7), 716.4(†6.7)
431.3	>0.013	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
431.38 *12*	0.20 *7*	^{136}I(83.4 s)	1313.02(67), 1321.08(24.8), 2289.6(10.4)
431.38 *12*	0.63 *19*	^{136}I(46.9 s)	1313.02(100), 381.359(100), 197.316(78)
431.4 *2*	†34 *5*	^{136}Eu(3.3 s)	254.9(†100), 458.0(†20), 778.0(†17)
431.4 *3*	3.63 *15*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
• 431.4 *5*	0.000052 *4*	^{145}Sm(340 d)	61.25(12), 492.31(0.00328)
431.4 *3*	0.31 *3*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
431.4 *7*	0.38	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
431.4 *3*	0.029 *9*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
431.45 *10*	0.77 *8*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
431.49 *4*	0.97 *7*	^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
431.5	37 *7*	^{40}S(8.8 s)	211.55(72), 888.4(36), 676.8(27)
• 431.5 *5*	0.16 *7*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
431.6 *4*	0.078 *16*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
431.6 *1*	40.4 *20*	^{141}Sm(22.6 m)	196.88(74), 777.6(20.3), 1786.4(10.9)
431.6 *3*	†8.8 *21*	^{147}Ho(5.8 s)	189.1(†100), 883.9(†100), 486.7(†61)
431.61 *13*	0.12 *3*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
431.61 *6*	16.7 *13*	^{190}Re(3.1 m)	186.718(48.4), 557.972(28.2), 223.811(26.0)
431.61 *6*	0.40 *4*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 431.61 *6*	2.74 *16*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
431.652 *4*	3.9 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
431.7 *5*	0.026 *6*	^{107}Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
431.77 *11*	0.0014 *8*	^{45}Ti(184.8 m)	720.22(0.154), 1408.6(0.085), 1662.4(0.041)
431.8 *3*	0.47 *8*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
431.8 *2*	0.40 *5*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
431.8 *3*	0.47 *5*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
431.82 *15*	0.052	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
431.9 *6*	0.032 *5*	^{112}Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
431.9 *2*	0.35 *5*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
431.9 *2*	0.06	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
431.93 *25*	†1.0 *2*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
• 431.982 *24*	0.0067 *6*	^{196}Au(6.183 d)	355.684(87), 332.983(22.9), 521.175(0.389)
432.0 *4*	1.64 *10*	^{95}Y(10.3 m)	954.00(16), 2175.6(7.00), 3576.0(6.4)
432.00 *14*	0.170 *17*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
• 432.0 *8*	0.010 *7*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
432.08 *9*	0.054 *12*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
432.1 *2*	0.62 *3*	^{63}Fe(6.1 s)	994.8(14.0), 1427.2(4.6), 1299.0(1.23)
432.1 *2*	0.850 *17*	^{79}As(9.01 m)	95.73(0.85), 364.9(1.06), 879.2(0.80)
432.1 *1*	†1.20 *12*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
• 432.1 *1*	0.034 *3*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
432.15 *5*	0.309 *17*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
432.16 *10*	4.03 *10*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
432.2 *2*	0.015 *3*	^{141}Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
432.24 *8*	1.37 *23*	^{75}Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
• 432.27 *7*	0.028 *3*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
432.29 *5*	20.2 *12*	^{75}Zn(10.2 s)	228.67(28.9), 155.94(17.2), 606.43(9.0)
432.3 *5*	†0.26 *4*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
432.3 *3*	0.0022 *12*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
432.3 *1*	1.02 *8*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
• 432.33 *9*	†0.31 *7*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
432.36 *16*	†11.6 *12*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
• 432.40 *7*	0.86 *4*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
432.4 *3*	1.90 *25*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
432.42 *10*	0.153 *17*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
• 432.493 *12*	2.90 *3*	^{140}La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
432.5 *5*	2.3 *5*	^{85}Se(31.7 s)	345.2(<0.23), 3396.6(7.4), 1427.2(7.0)
432.5 *2*	0.071 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
432.5 *2*	1.64 *11*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
432.5 *4*	0.050 *21*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
432.52 *8*	0.048 *16*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 432.549 *13*	1.64 *4*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
432.55 *4*	3.53 *8*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
432.6 *3*	0.08	^{154}Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
432.6 *3*	0.038 *6*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
432.6 *2*	†100 *3*	^{231}Fr(17.5 s)	454.1(†80), 95.6(†17)
432.61 *3*	17.4 *9*	^{93}Rb(5.84 s)	986.05(6.8), 213.429(6.7), 1385.21(5.7)
432.61 *3*	9000	^{94}Rb(2.702 s)	213.429(†6000), 986.05(†4100), 709.95(†2500)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
432.61 *15*	0.117 *23*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
432.65 *30*	1.10 *20*	^{124}In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
432.66	0.013 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 432.66 *12*	0.0237 *12*	^{160}Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
432.67 *6*	1.46 *9*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
432.7 *2*	†10 *2*	^{155}Tm(45 s)	88.1(†100), 323.2(†65), 507.0(†40)
• 432.745 *8*	5.33 *6*	^{148}Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 432.745 *8*	2.83 *9*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 432.745 *8*	0.12 *6*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
432.8	0.052 *20*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
432.8 *4*	†2.20 *25*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
432.86 *7*	9	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 319.90(9.4)
432.9 *10*	†6.0 *3*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
432.95 *3*	2.40 *12*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
432.96 *10*	0.42 *3*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 432.999 *6*	0.159 *3*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
433.0 *10*	0.16 *4*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
433.0 *5*	†0.68 *14*	^{120}I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
433.0 *5*	2.1 *4*	^{120}I(53 m)	560.44(100), 601.11(87), 614.62(67)
433.0 *1*	0.151 *12*	^{143}La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
• 433.0 *5*	0.08 *6*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
433.0 *2*	0.22 *4*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
• 433.0 *5*	1.436 *25*	^{175}Hf(70 d)	343.40(84), 89.36(2.40), 229.6(0.683)
433.0 *4*	0.16 *8*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 433.0 *5*	0.004	^{235}U(7.038×10^8 y)	185.712(57.2), 143.764(10.96), 163.358(5.08)
433.0		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
433.1 *1*	0.093 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 433.1 *5*	0.0029 *3*	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
433.14 *7*	2.3 *3*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
433.14 *10*	2.50 *18*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
433.150 *13*	0.711 *21*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
433.18 *18*	0.058 *6*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
433.2 *4*	0.36 *6*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
433.2 *3*	0.089 *19*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
433.2 *2*	†3.9 *4*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
433.2 *3*	0.17 *5*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
433.2 *6*	0.13	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
433.2 *4*	0.015	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
433.22 *9*	0.0518 *9*	^{137}Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
433.240 *30*	2.814 *23*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
433.24 *2*	0.14 *4*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
433.3 *1*	0.84 *6*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
433.3 *2*	0.25 *5*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
433.3 *2*	0.38	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
433.3 *2*	†6.3 *10*	^{195}Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
433.31 *20*	0.11 *2*	^{126}In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
433.31 *20*	0.51 *10*	^{126}In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
433.32 *8*	1.11 *6*	^{148}La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
433.345 *30*	4.20 *19*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
433.35 *10*	0.187 *13*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
433.35 *13*	0.18 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
433.4 *2*	2.55 *16*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
433.4 *2*	0.06	^{113}Pd(93 s)	95.74(3.3), 643.7(3.0), 739.63(2.4)
433.4 *2*	1.06 *9*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
433.47 *5*	1.31 *4*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
• 433.5 *4*	0.009 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
433.51 *9*	0.043 *5*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
433.6 *1*	7.5 *8*	^{98}Rb(96 ms)	144.224(73), 289.4(68), 3010.5(23.4)
433.6 *3*	0.73 *8*	^{118}Ag(2.0 s)	487.77(57), 677.13(53), 1058.39(14.8)
433.6 *4*	0.18 *10*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
433.6 *2*	†83 *2*	^{154}Lu(1.12 s)	821.3(†100), 694.7(†97), 96.6(†12)
433.6 *4*	0.012 *6*	^{212}Bi(60.55 m)	39.858(1.091), 452.83(0.31), 288.07(0.31)
433.7	0.16	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
433.7 *5*	1.8 *5*	^{98}Y(2.0 s)	1223.0(80), 620.505(63), 647.58(53)
433.7 *4*	0.6	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
433.70 *12*	†11.6 *12*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
433.7 *3*	†41 *4*	^{143}Tb(12 s)	45.1(†100), 686.1(†48), 462.8(†45)
433.7 *3*	0.062 *10*	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
433.73 *16*	0.0147 *18*	^{85}Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
433.741 *19*	0.558 *14*	^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
433.76 *8*	†73 *8*	^{129}Sb(17.7 m)	759.8(†100.0), 657.78(†92), 63.6(†10)
433.8 *2*	>3.9	^{131}Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
433.824 *9*	5.1 *3*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
433.9 *3*	0.10 *3*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
433.9 *4*	0.17	^{106}Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 433.9 *4*	0.09 *4*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
433.9 *2*	1.28 *11*	^{137}Pr(1.28 h)	836.7(1.8), 514.0(1.08), 160.32(0.97)
433.9 *2*	0.57 *5*	^{141}Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
433.9 *2*	0.43 *15*	^{141}Eu(2.7 s)	394.0(0.60), 882.9(0.54), 518.8(0.45)
433.937 *5*	43	^{108}Rh(16.8 s)	618.84(15.0), 497.22(5.2), 931.15(1.46)
433.937 *5*	88	^{108}Rh(6.0 m)	581.1(60), 947.27(49), 901.31(28)
433.937 *5*	0.50	^{108}Ag(2.37 m)	618.84(0.261), 1007.22(0.0139), 510.1(>0.0035)
• 433.937 *5*	90	^{108}Ag(418 y)	722.938(90.8), 614.281(89.8)
434.0 *3*	0.094 *23*	^{69}Cu(2.85 m)	1007.5(23.4), 834.4(13.1), 531.2(6.0)
434.0	0.008	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
434.0 *3*	0.66 *4*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
434.01 *5*	1.087 *20*	^{126}Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
434.1 *2*	†1.0 *2*	^{160}Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
434.1 *2*	0.038 *6*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
434.101 *21*	1.22 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 434.13 *10*	0.0242 *19*	^{125}Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
434.18 *11*	0.79 *6*	^{136}I(83.4 s)	1313.02(67), 1321.08(24.8), 2289.6(10.4)
434.190 *17*	9.8 *4*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
434.190 *17*		^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
434.2 *1*	0.52 *5*	^{223}Ac(2.10 m)	98.58(0.891), 191.3(0.58), 83.55(0.57)
434.23 *20*	0.016 *3*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
434.25 *21*	0.0202 *20*	^{106}Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
434.25 *21*	0.00224 *22*	^{106}Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
434.25 *15*	0.46 *9*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
434.27 *6*	1.13 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
434.3 *1*	1.07 *14*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
• 434.3 *5*	0.13 *5*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
434.3 *1*	0.053 *14*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
434.3	†7.3	^{198}Bi(693 s)	1063.5(†100), 197.6(†80), 562.4(†79)
434.3 *1*	0.67 *9*	^{236}Th(37.5 m)	110.8(4.2), 646.6(0.72), 196.0(0.69)
434.33 *10*	0.652 *25*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
434.388 *13*	0.35 *3*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
434.4 *1*	0.45 *6*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
434.4 *1*	9.3 *5*	^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 796.7(7.9)
434.4 *1*	0.0024 *5*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 434.43 *4*	0.170 *9*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
• 434.465 *13*	0.209 *4*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 434.50 *10*	0.039 *5*	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
434.5 *2*	†0.74 *7*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
434.5 *2*	†1.6 *1*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
434.52 *12*	†47 *4*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
434.562 *41*	20.3 *4*	^{138}Xe(14.08 m)	258.411(31.5), 1768.26(16.7), 2015.82(12.25)
434.6 *5*	0.076 *19*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
434.6 *3*	†1.4 *2*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
434.7 *2*	14.2 *7*	^{130}Sn(3.72 m)	192.5(70), 779.8(59), 70.0(35.5)
434.7 *2*	2.5 *3*	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
434.70 *3*	0.0043	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
434.71 *5*	0.38 *3*	^{96}Nb(23.35 h)	778.224(96.45), 568.80(58.0), 459.88(26.62)
• 434.71 *5*	0.75 *5*	^{96}Tc(4.28 d)	778.224(100), 849.929(98), 812.581(82)
434.71 *2*	1.13 *8*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
434.72 *3*	0.525 *17*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
434.73 *12*	1.9 *4*	^{181}Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
434.75 *7*	0.254 *15*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
434.8	1.0 *3*	^{147}Tb(1.7 h)	1152.4(100), 694.4(43), 139.9(27.46)
434.8 *3*	0.20 *7*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
434.81 *5*	1.42 *23*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
434.849 *17*	34.4 *8*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 773.276(9.1)
434.85 *10*	0.048 *5*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 434.89 *10*	0.0227 *20*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
434.9 *7*	0.036 *14*	^{116}In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
434.9 *10*	0.09 *4*	^{129}Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
434.9 *10*	0.47 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
434.9 *3*	7.6 *3*	^{171}Re(15.2 s)	568.4(16.1), 102.0(9.7), 1066.0(8.1)
• 434.9 *3*	0.013	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
• 434.9 *3*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
434.92 *13*	0.071 *24*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
434.92 *13*	0.009 *3*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
435.0 *3*	0.15 *3*	^{88}Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
435.0 *8*	0.0007 *5*	^{141}La(3.92 h)	1354.52(1.64), 1693.3(0.074), 2267.0(0.0413)
435.0 *5*		^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
435.06 *4*	18.6 *12*	^{134}Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
435.08 *8*	0.063 *8*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
435.1 *1*	0.23	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
• 435.1 *1*	0.00311 *15*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
435.16 *19*	1.8 *8*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
435.2 *3*	0.25 *4*	^{237}Am(73.0 m)	280.23(47.3), 438.4(8.3), 473.5(4.3)
435.28 *5*	1.22 *17*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
435.28 *7*	0.34	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
435.3 *4*	0.072 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
435.4 *2*	1.2 *3*	^{129}Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
435.4 *6*	0.6 *1*	^{148}Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
435.5 *4*	0.77 *4*	^{86}Se(15.3 s)	2441.1(43.0), 2660.0(21.6), 48.3(15.4)
435.5 *2*	0.39 *6*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
435.5 *2*	†3.6	^{96}Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
435.5 *3*	0.21 *4*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
435.5 *2*	1.7	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
435.55 *6*	0.33 *6*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
435.6 *3*	0.48 *5*	^{118}Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
435.6 *3*	†1.8 *5*	^{129}Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
435.6 *3*	0.168 *24*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
435.6 *1*	†4.7 *5*	^{225}Fr(4.0 m)	182.3(†100), 31.50(†91), 225.1(†55)
435.62 *7*	0.61 *4*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
435.63 *2*	5.74 *8*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
435.7 *3*	0.075 *23*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
435.72 *5*	0.462 *22*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
435.72 *2*	2.02 *18*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
435.8 *6*	0.096 *24*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
435.8 *3*	0.15 *5*	^{251}Cm(16.8 m)	542.7(10.9), 530.0(1.62), 389.7(1.28)
435.82 *3*	0.0255 *12*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
435.85 *10*	1.96 *13*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
435.85 *18*	0.070 *14*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
435.9	0.015 *7*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 435.9	0.0039 *11*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
435.9 *2*	†6.3 *12*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
435.99 *3*	1.79 *8*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
435.99 *4*	1.209 *24*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
436 *1*	†>0.7	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
436.0 *10*		^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
436.1 *3*	0.081 *9*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
436.1	0.31	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
436.1 *11*	0.018	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
436.1 *1*	0.0285 *6*	^{163}Er(75.0 m)	1113.5(0.0490), 439.94(0.0276), 297.88(0.012)
• 436.102 *16*	0.247 *9*	^{172}Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
436.136 *14*	0.0080 *10*	^{239}Am(11.9 h)	277.599(15.0), 228.183(11.3), 209.753(3.50)
436.176 *5*	2.5 *3*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
436.2 *3*	0.21 *4*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
436.24 *6*	0.158 *9*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
436.29 *3*	37 *3*	^{125}Cd(0.65 s)	1099.48(22.3), 2147.19(19.1), 1700.96(10.8)
436.3 *2*	0.06	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
436.3 *4*	†5.3 *15*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
436.3 *3*	0.30 *8*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
• 436.330 *25*	0.384 *19*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
436.33 *14*	†2.1 *3*	^{182}Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
• 436.369 *10*	0.0159 *14*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
• 436.369 *10*	0.047 *4*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
436.4 *2*	4.9 *9*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
436.4 *2*	0.33 *9*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
436.4	0.25 *7*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
436.4 *7*	3.8 *2*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
436.5 *2*	0.44 *5*	^{92}Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
436.5 *4*	0.19 *5*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
436.551 *8*	91 *4*	^{204}Au(39.8 s)	1511.10(25.2), 691.80(24.0), 723.00(22.2)
436.59 *9*	0.265 *9*	^{137}Ce(9.0 h)	447.15(1.8), 10.6(0.8), 433.22(0.0518)
436.6 *4*	0.00027 *3*	^{107}Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
436.6 *3*	>0.5	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
436.6 *1*	0.54 *5*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
• 436.6 *4*	4.6×10^{-6} *7*	^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
436.68 *6*	4.1 *3*	^{116}Sb(60.3 m)	1293.54(100), 972.550(72), 542.872(52)
436.7 *2*	4.1 *6*	^{128}Sn(59.07 m)	482.3(59), 75.1(27.7), 557.3(16.5)
436.7 *1*	3.9 *7*	^{149}Er(8.9 s)	1171.0(9.4), 171.5(6.5), 343.9(6.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
436.7 *1*		^{150}Tm(2.2 s)	343.9, 171.5
436.7 *2*	0.10 *3*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
436.7 *3*	0.66 *10*	^{192}Hg(4.85 h)	274.8(50.4), 157.2(7), 306.5(5.4)
436.80 *8*	3.26 *25*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
436.8 *2*	3.0 *3*	^{132}Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
436.8 *6*	0.15 *5*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
436.8 *10*	†0.8	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
436.8 *3*	0.031 *6*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
• 436.83 *20*	0.00190 *19*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
436.85 *12*	†7.3 *6*	^{131}Ce(5.0 m)	230.43(†100), 462.9(†6.9), 568.95(†4.7)
436.86 *10*	0.76 *4*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
436.9 *2*	0.079 *11*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
436.9 *4*	0.28 *6*	^{231}Np(48.8 m)	370.9(10), 348.4(3.63), 263.8(2.84)
436.92	100	^{42}Sc(61.7 s)	1524.70(99.70), 1227.66(99.0), 328.24(1.0)
436.98 *15*	0.58 *4*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
437.0 *1*	0.0194 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
437.0 *1*	†0.55 *7*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
437.0 *7*	8.5 *11*	^{168}Dy(8.7 m)	192.5(32.8), 487.0(22.5), 443.3(15.5)
437.0	†16	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
437.02 *8*	0.45 *7*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
437.071 *28*	0.103 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
437.1 *1*	0.94 *4*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
• 437.12 *19*	0.25 *3*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
• 437.18 *4*	0.191 *6*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
437.2 *5*	0.07 *3*	^{98}Rb(114 ms)	144.224(24.5), 1693.3(5.9), 2171.7(5.7)
437.2 *5*	0.8 *3*	^{98}Rb(96 ms)	144.224(73), 289.4(68), 3010.5(23.4)
437.2 *3*	1.0 *4*	^{102}Sr(69 ms)	243.80(53), 150.15(18.0), 93.89(13.4)
437.2 *3*	2.6 *4*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
437.2 *5*	†13 *3*	^{119}Xe(5.8 m)	231.8(†100), 98.5(†95), 461.5(†91)
437.2 *2*	0.39 *7*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
437.2 *3*	0.19 *4*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
437.3 *3*	†0.76 *8*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
437.3 *3*	0.25 *7*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
437.4 *4*	2.6 *4*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
437.4 *2*	†10.4 *6*	^{138}Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
437.4 *2*	7	^{149}Tm(0.9 s)	796.2(18), 158.8(12.3), 416.7(11)
437.41 *8*	0.49 *9*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
437.42 *4*	0.165 *11*	^{81}Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
437.43 *8*	0.34 *11*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
437.48 *2*	0.32 *16*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
437.5 *3*	0.0007 *8*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
437.54 *20*	2.0 *3*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
437.56 *13*	0.35 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
• 437.575 *2*	1.929 *10*	^{140}Ba(12.752 d)	537.261(24.39), 29.9640(14.1), 162.660(6.21)
437.6 *3*	5.3 *9*	^{108}Rh(6.0 m)	433.937(88), 581.1(60), 947.27(49)
• 437.60 *2*	0.234 *8*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
437.6	†0.8 *2*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
437.6 *3*	0.91 *9*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
437.6 *1*	0.75 *5*	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
437.631 *8*	6.0 *14*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 484.501(11.3)
437.69 *7*	0.165 *20*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
437.7 *4*	0.24 *13*	^{113}Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
437.7 *6*	0.30 *15*	^{119}Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
437.7 *4*	9 *4*	^{139}Eu(17.9 s)	267.3(31), 155.3(31), 190.1(25)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
437.7 *4*	0.096 *24*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
437.7 *3*	†0.27 *9*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
437.77 *19*	0.079 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
437.8 *2*	0.00135 *14*	^{255}Fm(20.07 h)	81.477(0.81), 58.477(0.67), 80.92(0.27)
437.85 *5*	0.122 *4*	^{126}Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
437.85 *7*	0.036 *3*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
437.98 *5*	1.38 *7*	^{79}Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
438 *2*		^{72}Kr(17.2 s)	415.1(34.7), 310.0(28.5), 162.2(16.3)
438.0 *2*	†1.8 *5*	^{129}Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
438.0 *5*	†2	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
438.0 *4*	0.11 *6*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
438.0 *3*	†2.44 *21*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 438.01 *7*	0.0046 *4*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
438.02 *16*	2.75 *30*	^{94}Rh(25.8 s)	756.23(100), 1430.50(100), 311.70(97.3)
438.02 *16*	7.1 *3*	^{94}Rh(70.6 s)	1430.50(100), 756.23(51), 1072.50(30.7)
438.08 *10*	0.96 *6*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
438.1 *3*	1.57 *8*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
438.1 *1*	0.088 *13*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
438.1 *3*	0.32 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
438.13 *4*	0.20 *5*	^{201}Au(26 m)	542.6(1.2), 517.0(0.83), 613.2(0.77)
• 438.16 *10*	0.85 *3*	^{83}Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
438.19 *17*	†6.3 *7*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
438.2 *4*	6.2 *6*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
438.2	0.09	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
438.2 *6*	>0.030	^{219}Rn(3.96 s)	271.23(10.8), 401.81(6.37), 130.59(0.119)
438.2 *3*	1.24 *8*	^{251}Cm(16.8 m)	542.7(10.9), 530.0(1.62), 389.7(1.28)
438.22 *5*	1.55 *24*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
438.25 *7*	0.27 *4*	^{69}As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
• 438.252 *5*	0.0014 *5*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
438.252 *5*	0.27	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
438.274 *18*	0.068 *16*	^{182}Os(22.10 h)	510.056(52), 180.230(33.5), 263.285(6.71)
438.30 *20*	0.32 *7*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
438.3 *2*	0.007 *3*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
438.30 *2*	5.04 *24*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 215.52(3.48)
438.3 *1*	0.30 *9*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
438.3 *3*	0.126 *13*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
438.37 *10*	42 *3*	^{150}Tb(5.8 m)	638.05(100), 650.4(70), 827.48(41)
438.4 *5*	0.167 *11*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
438.4 *1*	8.3 *4*	^{237}Am(73.0 m)	280.23(47.3), 473.5(4.3), 908.8(2.60)
• 438.43 *8*	0.0043 *9*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
438.49 *10*	0.79 *16*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
438.5 *1*	0.049 *5*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
• 438.5 *5*	0.039 *10*	^{140}La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
438.5 *5*	0.09	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 438.51 *10*	0.021 *7*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
438.6 *4*	0.14 *4*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
438.6 *2*		^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
438.6 *2*		^{106}In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
438.6 *3*		^{118}Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
438.68 *5*	2.30 *25*	^{123}Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
438.68 *5*	0.1 *1*	^{123}Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
438.69 *10*	2.6 *3*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
438.7 *2*	†11.3 *23*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
• 438.7 *1*	0.0015 *5*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 438.71 *6*	0.0030 *11*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
• 438.71 *6*	0.0036 *12*	^{189}Ir(13.2 d)	245.09(6), 69.537(3.5), 59.053(1.20)
438.76 *20*	2.18	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
438.768 *18*	0.150 *24*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
438.8 *2*	2.9 *3*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
438.8 *1*	37.7 *13*	^{141}Sm(10.2 m)	403.8(43), 1292.6(6.8), 1600.7(4.0)
438.8 *3*	0.04	^{215}Po(1.781 ms)	
438.83 *10*	0.215 *10*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
438.87 *9*	0.040 *4*	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
438.9 *4*	0.028 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
438.95 *10*	0.49 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
439.00 *15*	0.25 *14*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
439.0 *5*		^{110}Ru(14.6 s)	112.2(25.00), 166.1(0.65), 116.1(0.45)
439. *3*	0.6 *6*	^{114}Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
439.0 *5*	0.05 *5*	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
439.0 *1*	1.36 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 439.0 *5*	0.008 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
439.0 *4*	0.08 *4*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
439.0 *10*	0.034 *17*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
439.04 *8*	1.91 *15*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
439.08 *15*	0.74 *10*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
439.15 *3*	2.09 *10*	^{91}Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
439.19 *26*	0.0126 *20*	^{106}Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
439.19 *26*	0.0057 *8*	^{106}Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
439.2 *3*	0.014 *3*	^{88}Rb(17.78 m)	1836.063(21.40), 898.042(14.04), 2677.892(1.96)
439.2 *2*	2.85 *10*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
439.2 *2*	2.3 *2*	^{117}Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
439.2 *1*	1.06 *10*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
439.22 *3*	0.355 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
439.3	0.10	^{43}Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
439.3 *2*	0.24 *4*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
439.3 *4*	0.07 *3*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
• 439.3	0.081 *14*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
439.39 *7*	0.11 *6*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
439.39 *7*	0.18 *8*	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
439.401 *15*	0.77 *5*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
• 439.401 *15*	80.4 *16*	^{150}Eu(35.8 y)	333.971(96), 584.274(52.6), 737.455(9.60)
439.43 *4*	1.9 *6*	^{59}Mn(4.6 s)	726.7(42), 472.71(29.0), 570.81(24.8)
439.44 *5*	0.202 *4*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 439.453 *6*	0.00102 *11*	^{77}As(38.83 h)	238.996(1.6), 520.639(0.558), 249.786(0.394)
• 439.453 *6*	1.56 *4*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
439.5 *3*	0.20 *7*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
439.50 *15*	0.124 *11*	^{195}Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
439.53 *5*	0.0100 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
439.56 *6*	0.046 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
439.575 *17*	0.37 *3*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
439.59 *2*	10.0 *5*	^{202}Au(28.8 s)	1125.20(2.30), 1306.38(2.25), 1203.7(2.01)
• 439.59 *2*	91	^{202}Tl(12.23 d)	520.11(0.58), 959.70(0.069)
439.6 *1*	0.89 *22*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
439.6	0.036 *16*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
439.60 *8*	0.037 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
439.6 *3*	0.00033 *15*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
439.7 *3*	0.189 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
439.7 *3*	†0.8 *3*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
439.7 *3*	0.17	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
439.71 *4*	6.73 *12*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
439.71 *3*	0.525 *25*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
439.79 *7*	20.7 *22*	^{110}Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
439.79 *7*	6.5 *5*	^{110}Rh(3.2 s)	373.80(54), 796.83(5.3), 813.56(2.3)
• 439.895 *22*	1.20 *8*	^{147}Nd(10.98 d)	91.105(28), 531.016(13.1), 319.411(1.95)
439.9 *3*		^{122}Ba(1.95 m)	550.7, 388.7, 231.0
439.9 *3*	2.08 *17*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
439.9 *5*	0.065 *25*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 439.9 *2*	0.00035 *8*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
439.94 *10*	0.0276 *6*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 297.88(0.012)
439.986	33	^{23}Ne(37.24 s)	1635.96(0.99), 2075.91(0.102), 2981.85(0.0378)
439.986	8.2 *3*	^{23}Mg(11.317 s)	2390.598(0.0044), 1950.652(0.0025)
440.0 *1*	0.60 *5*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
440.0 *2*	†1	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
440 *1*	0.23 *11*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
440	4.0 *6*	^{211}Fr(3.10 m)	539.9(20), 918.3(11), 281(6.8)
440.0 *3*	†0.27 *9*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
440.01 *8*	0.022 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
440.02 *5*	0.428 *14*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 538.54(0.382)
440.15 *12*	0.343 *14*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
440.2 *3*	0.17 *6*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
440.2 *4*	0.80 *15*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
440.3 *3*	1.18 *25*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
440.3 *2*	0.41 *15*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
440.3 *2*	0.36 *18*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
440.3 *3*	1.24 *6*	^{186}Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
440.37 *8*	0.058 *7*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
440.40 *10*	0.21 *5*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
440.4 *6*	>0.010	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
440.449 *14*	0.125 *8*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
440.46 *1*	26.1 *3*	^{213}Bi(45.59 m)	292.80(0.429), 807.36(0.292), 1100.16(0.29)
440.5 *4*	0.22 *4*	^{61}Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
440.5 *7*	1.0 *5*	^{78}Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
440.5 *6*	0.93 *23*	^{90}Mo(5.67 h)	257.34(78), 122.370(64.2), 203.13(6.4)
440.5	0.36	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
440.50 *20*	0.65 *10*	^{122}In(10.8 s)	1140.55(100), 1001.58(98.4), 103.74(81)
440.5 *7*	1.1 *3*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
440.59 *3*	2.5 *4*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
440.60 *12*	†15.2 *15*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
440.61 *19*	†7 *1*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
440.80 *18*	0.19 *4*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
440.8 *1*	†3.0 *6*	^{169}Ta(4.9 m)	511.0(†20.6), 28.80(†18.3), 192.4(†8)
440.8 *10*	0.048 *20*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 440.8 *10*	0.11 *3*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
440.84 *5*	1.07 *5*	^{100}Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
440.85 *15*	0.87 *10*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
• 440.85 *2*	1.51 *9*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
• 440.856 *95*	0.0109 *19*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
440.88 *12*	0.203 *23*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
440.9 *2*	†1.6 *3*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
440.9 *1*	13.1 *9*	^{146}Tb(23 s)	1579.4(100), 1078.6(51.6), 1417.2(17.2)
440.9 *5*	0.31 *7*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
440.94 *4*	0.23	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
440.96 *8*	0.65 *13*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
• 440.96 *5*	0.007 *3*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
• 440.97 *4*	0.092 *6*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
441.0 *5*	0.41 *8*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
• 441.0 *9*	0.7 *3*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
441.0 *10*	0.050 *25*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
441.01 *5*	†22 *1*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
441.05 *10*	3.5 *3*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
441.10 *7*	0.76 *8*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
441.10 *15*	0.76 *7*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
441.1 *7*	0.40 *7*	^{119}Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
441.1 *2*	1.73 *20*	^{121}Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
441.1 *4*	0.032 *9*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
441.1 *2*		^{146}Dy(29 s)	2156.8, 1915.7, 1876.7
441.12 *3*	0.68 *14*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
441.2 *2*	14.9 *10*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 501.7(10.0)
441.2 *3*	0.52 *14*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
441.2 *1*	1.96 *9*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
441.2	†0.8 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
441.2	0.19 *12*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
441.2 *5*	0.80 *15*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
441.2 *2*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
441.21 *5*	3.73 *7*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
441.22 *3*	0.0113 *23*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
• 441.23 *14*	0.0115 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
441.28 *14*	0.0316 *24*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
441.3 *7*	0.095 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
441.3 *3*	0.13 *3*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
441.3 *2*	0.32 *5*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
441.38 *19*	0.44 *22*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
• 441.43 *12*	0.027 *3*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
441.43 *12*	†38 *4*	^{189}Au(28.7 m)	713.17(†100), 812.68(†63), 447.65(†55)
441.44 *7*	0.040 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
441.45 *25*	0.190 *13*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
441.49 *5*	0.343 *18*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
441.5 *10*	0.032 *11*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
441.5	†9	^{138}Eu(12.1 s)	346.6(†100), 544.2(†55), 685.4(†41)
441.5 *4*	0.05 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 441.50 *20*	0.036 *6*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
441.51 *4*	1.66 *19*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
441.51 *4*	0.4 *3*	^{186}Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
441.70 *20*	0.049 *10*	^{114}Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
• 441.7 *5*	8.5×10^{-5} *8*	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
441.8 *3*	†7.8 *11*	^{198}Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)
441.9 *4*	0.0017 *8*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
441.90 *13*	1.0 *5*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
441.93 *8*	1.8 *3*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
442.0 *4*	0.051 *9*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
442	0.08	^{147}Tb(1.83 m)	1397.0(79), 1797.1(14), 1643.0(1.2)
442.0	0.13	^{148}Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
442.0 *2*	†0.19 *6*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
442 *1*	0.18 *8*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 442.08	>0.00042	^{173}Lu(1.37 y)	272.105(21.2), 78.63(11.87), 100.724(5.24)
442.1 *2*	0.054 *8*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
442.12 *8*	51	^{162}Gd(8.4 m)	403.00(43.3), 39.0(5.1), 341.42(2.70)
• 442.14 *10*	0.038 *4*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
• 442.17 *7*	0.161 *16*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
442.2 *8*	0.16 *8*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
442.2 *5*	3.9 *11*	^{119}Cs(43.0 s)	176.05(29.7), 225.13(26), 257.9(17.4)
442.2 *3*	†1.5 *3*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
442.2 *9*	0.023 *12*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
442.2 *1*	23.0 *14*	^{211}Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
442.28 *3*	0.59 *5*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
442.3 *4*	0.11 *3*	^{90}Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
• 442.37 *5*	0.042 *6*	^{105}Rh(35.36 h)	319.14(19), 306.25(5.1), 280.41(0.167)
• 442.37 *5*		^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
442.37 *5*	5900 *8*	^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 929.12(†4000)
442.40 *30*	0.027	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
442.4	>0.016	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
442.42 *7*	>0.6	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
442.42 *7*	0.065 *12*	^{83}Se(70.1 s)	1030.86(21.2), 356.687(18), 987.96(16.1)
442.5 *6*	0.8	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
442.51 *6*	†1.87 *10*	^{153}Pm(5.4 m)	35.842(†100), 127.298(†75), 28.309(†34.6)
442.6 *2*	1.3 *3*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
442.6 *2*	0.92 *9*	^{117}Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
442.6 *2*	0.66 *9*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
442.6		^{182}Hg(10.83 s)	129.3(†100), 217.7(†75), 413.5(†53)
442.7 *3*	0.39	^{53}V(1.61 m)	1006.14(90), 1289.59(10), 283.14(0.8)
442.7 *2*	1.0 *5*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
442.7 *4*	0.179 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
442.7 *3*	0.27 *9*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
442.74 *10*	†16 *2*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
442.74 *14*	0.82 *8*	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
442.78 *8*	0.24 *3*	^{224}Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
442.8 *2*	†0.9 *1*	^{75}Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
• 442.80 *20*	1.9 *3*	^{99}Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
• 442.81 *7*	†3.5×10^4 *3*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
442.87 *20*	0.53 *12*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
442.90 *10*	0.056 *3*	^{73}Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
442.90 *10*	0.0262 *16*	^{73}Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
442.9 *3*	0.026	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
442.9 *5*	†109 *35*	^{202}At(181 s)	677.4(†230), 571.6(†216)
442.9		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
442.901 *10*	17	^{128}I(24.99 m)	526.557(1.58), 969.458(0.404), 1140.079(0.0103)
442.901 *10*	26.8 *3*	^{128}Cs(3.66 m)	526.557(2.41), 1140.079(1.168), 969.458(0.630)
• 442.980 *16*	0.73 *3*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
443.0 *5*	0.0160 *9*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
443.00 *20*	0.56 *14*	^{102}Zr(2.9 s)	599.60(13.9), 535.30(10.6), 64.50(8.9)
443.0 *4*	†1.4 *5*	^{129}Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
443.0 *9*	0.14 *6*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
443.02 *24*	0.41 *7*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
443.1 *3*	0.26 *7*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
443.1 *1*	1.67 *18*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
443.1 *3*	0.031 *9*	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
443.13 *20*	0.016 *4*	^{63}Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
443.13 *3*	0.37 *4*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
443.14 *9*	16.9 *5*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
• 443.20 *7*		^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 443.24 *45*	0.00038 *5*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
443.25 *18*	0.0035 *10*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 443.29 *4*	0.139 *8*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
443.3 *4*	0.66 *20*	^{113}Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
443.3 *1*	0.0270 *25*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
443.3 *2*	5.2 *4*	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
443.3 *2*	15.5 *11*	^{168}Dy(8.7 m)	192.5(32.8), 487.0(22.5), 630.4(13.6)
443.3 *7*	0.14 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
443.34 *4*	17.5 *5*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 188.27(15.4)
• 443.37 *7*	10.5 *5*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
• 443.40 *15*	0.0408 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
443.4 *3*	0.27 *11*	^{203}Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
443.5 *1*	†1.26 *13*	^{123}La(17 s)	92.5(†100), 937.3(†43), 153.6(†43)
443.5 *2*	0.226 *20*	^{132}Sn(39.7 s)	340.53(49), 85.58(48.2), 899.04(44.8)
443.5 *2*	0.31 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
443.5 *4*	0.19 *6*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
443.551 *11*	1.15 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 443.554 *9*	0.302 *3*	^{125}Sb(2.7582 y)	427.875(30), 600.600(17.86), 635.954(11.31)
443.6 *3*	0.047 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
443.6 *3*	0.21 *7*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
443.60 *4*	1.09 *10*	^{174}Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
443.62 *15*	71	^{30}Mg(335 ms)	243.89(<71), 2168.9(2.1), 687.52(2.0)
443.7 *3*	†5.4 *12*	^{113}Ru(0.80 s)	263.2(†100), 211.7(†31.0), 337.5(†27.9)
443.7	0.010	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
443.7 *3*	0.33 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
443.7		^{157}Lu(5.0 s)	967.5, 949.8, 880.5
443.75 *5*	0.18 *3*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 443.75 *5*	5.5 *3*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
• 443.799 *19*	3.27 *9*	^{103}Ru(39.26 d)	497.080(90.9), 610.33(5.75), 557.039(0.8672)
• 443.799 *19*	1.50×10^{-5} *7*	^{103}Pd(16.991 d)	39.757(0.07), 357.47(0.0221), 497.080(0.00396)
• 443.8 *1*	0.023 *9*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
443.8 *2*	0.050 *7*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
443.879 *10*	10.8 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
443.9 *2*	>0.019	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
443.9 *1*	0.63 *14*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
443.9 *4*	0.20 *5*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
443.94 *5*	2.0 *2*	^{126}In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
• 443.961 *50*	0.196 *10*	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 443.961 *50*	0.033 *9*	^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
443.976 *5*	0.025 *8*	^{152}Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
443.976 *5*	0.033 *17*	^{152}Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
443.976 *5*	0.89 *9*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 443.976 *5*	0.313 *21*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
• 443.976 *5*	2.78 *6*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
443.976 *5*	0.0254 *12*	^{152}Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
444.0 *5*	†4	^{99}Rb(59 ms)	90.8(†100), 125.2(†40), 1071.6(†26)
444.0 *4*	†0.85 *14*	^{164}Hf(111 s)	122.1(†100), 153.3(†47), 313.7(†22)
444.04 *7*		^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
444.08 *10*	0.57 *4*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
444.18 *23*	0.64 *17*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
444.18 *8*	†1.08 *9*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
444.2 *5*	0.05 *3*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
444.2 *2*	0.126 *14*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
444.2 *1*	0.018 *3*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
444.2 *1*	1.37 *16*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
444.2 *1*	0.94 *12*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
444.2 *3*	†27 *3*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
444.22 *2*	0.119 *12*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
444.28 *5*	2.54 *9*	^{148}Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
444.3 *1*	0.050 *13*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
444.40 *46*	0.06 *3*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
444.4 *1*	†15.6 *16*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
444.4 *7*	0.33 *3*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
444.42 *17*	0.0172 *5*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 444.484 *6*	0.565 *5*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
444.484 *6*	1.06 *6*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
444.484 *6*	0.95 *18*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
444.484 *6*		^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
444.5 *2*	9.0×10^{-5} *4*	^{104}Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
444.5 *2*	1.7 *3*	^{104}Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
444.5 *2*	0.32 *5*	^{105}Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
444.5	†40	^{162}Ta(3.52 s)	285.0(†100)
444.5 *4*	0.18 *9*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
444.5 *3*	0.00054 *15*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
444.50 *5*	0.129 *7*	^{226}Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
444.59 *14*	0.063 *14*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
444.6 *2*	>0.019	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
444.60 *20*	0.67 *17*	^{106}Tc(35.6 s)	270.07(56), 2239.30(13.6), 1969.40(8.9)
444.6 *3*	0.192 *25*	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
444.628 *20*	39 *4*	^{98}Sr(0.653 s)	119.353(73), 428.4(31), 36.5(20.4)
444.7 *4*	0.47 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
444.7	0.015 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
444.73 *12*	0.347 *16*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
444.73 *23*	1.27 *10*	^{206}At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
444.731 *25*	0.74 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
444.79 *16*	†1.3 *2*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
444.8 *10*	0.50 *9*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
444.8 *1*	†1.6 *2*	^{75}Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
444.8 *2*	0.28 *6*	^{104}Mo(60 s)	68.8(55), 69.7(17.8), 36.3(14)
444.8 *2*	0.00091 *10*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
444.821 *16*	0.0043 *12*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
444.9 *3*	†0.16 *2*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
444.94 *2*	2.05 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
445.0 *1*	5	^{104}Zr(1.2 s)	100.9(6), 504.7(5), 263.7(4.1)
445.0 *6*	>0.10	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
445.0 *4*	0.49 *7*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
445 *1*	0.012 *12*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
• 445.03 *1*	1.27 *4*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
• 445.07 *17*	0.0016 *8*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
445.1	0.30	^{83}As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
• 445.1 *5*	4.32 *11*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
445.1 *3*	†16.4 *24*	^{147}Ho(5.8 s)	189.1(†100), 883.9(†100), 486.7(†61)
445.1 *2*	†10.5 *20*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
445.1 *3*	1.00 *9*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
445.12 *15*	0.70 *8*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
445.2 *2*	7.7 *7*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 310.5(5.4)
445.2 *2*	0.14	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
445.2	†14 *3*	^{189}Tl(1.4 m)	317.5(†100), 215.6(†90), 335(†63)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 445.2 *1*	0.054 *6*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
445.2 *3*	†1.34 *16*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
• 445.24 *6*	0.014 *6*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
445.28 *5*	0.063 *13*	^{78}Rb(17.66 m)	454.97(63), 692.86(12.56), 562.15(11.41)
445.28 *5*	0.69 *4*	^{78}Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
445.3 *8*	0.33	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
445.32 *20*	1.2 *4*	^{125}Cd(0.65 s)	436.29(37), 1099.48(22.3), 2147.19(19.1)
445.32 *20*	0.35 *9*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
445.34 *20*	0.30 *5*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
445.37 *21*	6.0 *6*	^{90}Mo(5.67 h)	257.34(78), 122.370(64.2), 203.13(6.4)
445.4 *1*		^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
445.4 *3*	0.13 *3*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
445.4 *3*	0.10 *3*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
• 445.494 *9*	0.050 *9*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
445.5 *2*	1.0 *2*	^{129}Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
445.5 *3*	0.0042 *25*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
• 445.5 *5*	0.0029 *10*	^{140}La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
445.50 *15*	0.41 *5*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
445.5 *5*	0.039 *14*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
445.52 *8*	0.05	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
445.53 *11*	0.117 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
445.55 *15*	0.46 *6*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
445.59 *8*	1.03 *5*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
445.59 *12*	†6.2 *5*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
• 445.68 *2*	4.01 *23*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
445.7 *3*	1.5 *3*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
445.7 *5*	0.13 *7*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
• 445.740 *6*	8.8×10^{-6} *6*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
445.76 *10*	0.103 *24*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
445.8 *3*	†28 *3*	^{109}Tc(0.87 s)	194.6(†100), 128.7(†51), 96.2(†48)
445.8 *4*	0.22 *9*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
445.81 *14*	1.6 *3*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
445.84 *8*	0.022 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
445.90 *20*	0.143 *12*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
445.9 *4*	0.08 *4*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
445.9 *1*	0.88 *9*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
445.91 *10*	†30 *7*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 445.91 *10*	0.020 *4*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
445.99 *2*	5.53 *16*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
• 445.995 *4*	0.073 *21*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
446.0 *5*	7	^{146}La(10.0 s)	258.47(93), 409.86(81), 514.75(31)
• 446.02 *9*	0.015 *3*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
• 446.025 *9*	2.96 *7*	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
• 446.081 *4*	0.0098 *23*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
446.10 *30*	0.034 *4*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
446.1	0.06	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
446.1 *1*	0.5 *1*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
446.15 *2*	23.2 *7*	^{81}Rb(4.576 h)	190.38(64.0), 510.31(5.3), 456.76(3.02)
446.15 *2*	0.0212 *24*	^{81}Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
446.2 *3*	>0.39	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
446.20 *6*	2.32 *13*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
446.2 *1*	11.2 *4*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
446.2 *2*	†0.81 *14*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
446.2 *7*	0.041 *7*	^{112}Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
446.2 *4*	1.84 *15*	^{119}Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
446.2 *3*	0.60 *5*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
446.26 *13*	0.57 *6*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
446.3 *3*	1.0 *3*	^{78}Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
446.3 *4*	0.23 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
446.3 *2*	0.7 *3*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
446.3 *3*	1.3	^{207}Hg(2.9 m)	351.059(77), 997.1(69), 1637.1(30)
446.4 *3*	0.08 *4*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
446.4 *4*	0.108 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
446.4 *10*	0.077 *10*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
• 446.43 *15*	†4.9×10^3	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
446.5 *1*	†3.4 *3*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
446.5 *5*	†5.6 *17*	^{193}Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
446.5 *7*	2.8 *5*	^{194}Tl(32.8 m)	636.5(99), 428.0(99), 748.9(76)
• 446.52 *6*	0.040 *3*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
446.53	0.014 *3*	^{39}Cl(55.6 m)	1267.185(54), 250.332(46.3), 1517.508(39.2)
446.6 *1*	0.113 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
446.6 *1*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
446.613 *3*	4.5 *4*	^{196}Ir(52 s)	355.684(19), 779.630(10.4), 332.983(4.35)
446.69 *5*	0.36 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
446.7 *6*		^{134}Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
446.7 *6*		^{134}Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
446.7 *6*	0.026 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
446.7 *1*	†0.45 *9*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
446.7 *7*	0.32 *16*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
• 446.74 *19*	0.12 *6*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
446.74 *26*	0.28 *3*	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
446.78 *6*	1.65 *9*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
446.8 *2*	0.149 *17*	^{79}As(9.01 m)	95.73(0.85), 364.9(1.06), 432.1(0.850)
446.8 *3*	0.101 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
446.8 *3*	0.0025 *8*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
446.8 *5*	0.0012 *10*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
446.81 *6*	0.089 *5*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
• 446.811 *3*	3.72 *3*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
• 446.82 *20*	8.4×10^{-7} *20*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
446.88 *7*	0.207 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
446.90 *6*	5.6 *3*	^{79}Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
446.9 *3*	0.042 *12*	^{84}Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
446.9 *3*	3	^{84}Br(6.0 m)	425.30(100), 881.610(98), 1463.84(97)
446.9 *3*	4.4 *13*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
446.9 *1*	0.40 *4*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
446.9 *5*	†3.7	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
446.96 *8*	0.38 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
447.048 *16*	†7.0 *7*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
447.08 *10*	3.53 *21*	^{121}Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
447.1 *1*	3.0 *5*	^{105}Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
447.1 *3*	0.114 *23*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
447.1 *4*	0.15	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
447.1 *2*	†102.1 *21*	^{196}Ir(1.40 h)	393.346(†105.2), 521.175(†104), 355.684(†102)
447.13 *6*	19.6 *20*	^{102}Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
447.15 *8*	1.8	^{137}Ce(9.0 h)	10.6(0.8), 436.59(0.265), 433.22(0.0518)
447.18 *7*	0.077 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
447.2 *2*	†0.14 *3*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
447.2 *2*	†5.8 *12*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
447.26 *9*	0.48 *6*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
447.30 *20*	0.28 *14*	^{102}Zr(2.9 s)	599.60(13.9), 535.30(10.6), 64.50(8.9)
447.3 *5*	0.22 *7*	^{119}Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
447.3 *3*	2.0 *4*	^{132}Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
447.3 *5*	†190 *95*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
• 447.35 *4*	0.119 *15*	^{241}Cm(32.8 d)	471.805(71), 430.634(4.06), 132.413(3.86)
447.36 *20*	0.071 *4*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
447.40 *5*	3.3 *3*	^{118}I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
447.4		^{131}Sn(56.0 s)	3267.5, 2470.5, 2039.25
447.4		^{131}Sn(58.4 s)	367.40, 285.0, 62.9
447.4	†2.9	^{131}Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
447.4 *2*	3.2	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
• 447.45 *2*	0.060 *3*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
447.5 *5*	>0.13	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
447.5 *2*	3.21 *18*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
447.5 *3*	0.44	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
447.5 *3*	†22 *5*	^{157}Yb(38.6 s)	230.92(†100), 340.7(†90), 241.7(†74)
447.515 *3*	1.30 *6*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 447.515 *3*	23.05 *10*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 184.285(17.45)
447.56 *12*	†13 *2*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
447.6 *2*	0.00083 *20*	^{109}Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
447.6 *1*	0.264 *18*	^{209}At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
447.61 *15*	0.10 *2*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
• 447.65 *10*	0.0703 *22*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
447.65 *12*	†55 *7*	^{189}Au(28.7 m)	713.17(†100), 812.68(†63), 348.14(†43)
447.7 *4*	0.099 *25*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
447.70 *10*	0.37 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
447.762 *20*	0.15	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
447.8 *5*	0.057 *11*	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
447.8 *1*	0.55 *4*	^{247}Cf(3.11 h)	294.1(0.98), 417.9(0.34), 407.0(0.190)
447.81 *8*	2.88 *16*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 447.81 *8*	2.55 *14*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
447.90 *16*	0.076 *19*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
447.9 *5*	†0.11 *2*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
• 447.9 *1*	†37 *4*	^{258}Md(51.5 d)	367.8(†100), 276.8(†20.2), 71.1(†8.0)
448 *1*	0.17 *3*	^{70}As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
448.0	0.7	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
• 448.0 *8*	0.005 *5*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 448	>0.006	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
• 448.0 *6*	†0.010 *5*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
448.01 *9*	0.124 *6*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
448.01 *6*	12.3 *6*	^{240}Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
• 448.01 *6*	0.013 *4*	^{240}Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
448.10 *10*	0.074 *25*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
• 448.10 *8*	0.075 *15*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
448.15 *3*	0.008	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
448.2 *2*	0.047 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
448.2 *1*	0.20 *5*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
• 448.2 *2*	0.00026	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
448.2 *2*	0.00012	^{239}Am(11.9 h)	277.599(15.0), 228.183(11.3), 209.753(3.50)
• 448.2 *2*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
• 448.2 *5*	0.00069 *7*	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
448.3 *5*	0.022 *9*	^{113}Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
448.3 *1*	0.248 *14*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
448.3 *4*	†76	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
448.3		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
448.34 *9*	2.34 *14*	^{92}Y(3.54 h)	934.46(13.9), 1405.28(4.8), 561.03(2.40)
• 448.34 *9*	>0.0033	^{92}Nb(10.15 d)	934.46(99), 912.73(1.78), 1847.27(0.85)
448.4 *1*	†40.5 *11*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 582.3(†20.2)
448.4	0.016 *12*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
• 448.40 *6*	0.001	^{235}U(7.038×10^8 y)	185.712(57.2), 143.764(10.96), 163.358(5.08)
448.42 *12*	0.088 *6*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
448.46 *4*	0.0112 *14*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
448.5 *5*	>0.00021	^{145}Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
448.5	0.044 *9*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
• 448.52 *10*	0.0033 *16*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 448.580 *14*	1.63 *5*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
448.6 *1*	5.2 *3*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
• 448.6 *1*	0.020 *9*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
448.6 *5*	†3.1	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
448.61 *7*	1.68 *9*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
448.65 *11*	0.51 *5*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
448.66	1.05 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
448.67 *5*	0.69 *4*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
• 448.67 *27*	0.09 *5*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
448.67 *20*	0.50 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
448.7 *2*	0.45 *8*	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
448.7 *3*	0.97 *11*	^{136}Sm(47 s)	114.4(36), 747.7(5.4), 485.3(5.0)
448.7	†60	^{163}Ta(10.6 s)	396.0(†100), 451.1(†70), 210.0(†50)
448.7 *3*	†1.33 *7*	^{187}Pb(15.2 s)	299.5(†100), 617.2(†2.67), 493.6(†2.67)
448.7 *5*	0.00023	^{243}Pu(4.956 h)	84.0(23), 41.8(0.76), 381.7(0.56)
448.76 *12*	0.035 *4*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
• 448.789 *12*	0.259 *10*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
448.80 *20*	0.008 *4*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
448.8 *3*	1.4 *3*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 484.501(11.3)
448.80 *20*	†30 *5*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
448.88 *17*	0.301 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
448.9 *1*	0.107 *4*	^{66}Ga(9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)
448.9 *2*	†1	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
448.9 *1*	†13.3 *4*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
448.9 *1*	0.123 *25*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
448.92 *29*	0.106 *4*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
448.98 *3*	0.74 *4*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
• 449 *1*	0.050 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
449.0 *3*	†0.9 *3*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
449.0 *5*	0.71 *14*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
449.0 *2*	†2.23 *21*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
449.0 *3*	0.12 *4*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
449.05 *20*	1.3 *3*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
449.1		^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
449.12 *13*	0.214 *18*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
449.15 *6*	0.049 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
449.15 *6*	0.15 *5*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
449.2 *3*	3.3 *3*	^{94}Tc(293 m)	871.082(100), 702.626(99.6), 849.74(95.7)
449.2 *2*	1.66 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
449.2 *2*	0.036 *13*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 449.25 *20*	0.0072 *7*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
449.263 *29*	0.36 *3*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
449.3 *6*	2.0 *5*	^{183}Lu(58 s)	1125.3(25.0), 1056.8(16.5), 168.1(7.5)
449.30 *15*	†0.24 *3*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
449.3 *5*	0.038	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
449.3 *2*	†15.9 *24*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
449.33 *20*	0.32 *4*	^{124}In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
449.33 *20*	1.90 *20*	^{124}In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
• 449.36 *7*	0.168 *12*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
• 449.37 *10*	0.00019	^{226}Ra(1600 y)	186.10(3.50), 262.27(0.0049), 600.66(0.00049)
449.4 *5*	†3.6 *6*	^{106}Mo(8.4 s)	465.70(†100), 54.00(†54), 618.60(†25)
449.4		^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
449.5 *4*	0.75 *10*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
449.50 *16*	†29 *6*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
• 449.5 *2*	9.0×10^{-6} *3*	^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
449.54 *5*	2.51 *12*	^{75}Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
449.55 *21*	0.094 *18*	^{72}Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
449.6	0.062 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
449.6 *2*	†467 *62*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
449.7 *3*	†100 *5*	^{73}Cu(3.9 s)	199.2(†17), 502.0(†12), 306.8(†10)
449.7 *2*	†100 *2*	^{114}Cs(0.57 s)	698.2(†11.8), 618.3(†5.0), 758.2(†3.0)
449.7 *4*	0.20 *7*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
449.8	0.10	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
449.8 *4*	0.26 *13*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
449.9 *3*	0.050 *6*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
449.93 *5*	0.236 *16*	^{63}Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
449.94 *6*	0.08 *3*	^{78}As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
450.0 *3*	0.33 *5*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
450.0 *1*	0.99 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 450 *1*	0.011	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
450.0 *10*	0.034 *17*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
450.03 *5*		^{131}Sn(56.0 s)	3267.5, 2470.5, 2039.25
450.03 *5*		^{131}Sn(58.4 s)	367.40, 285.0, 62.9
450.03 *5*	†90 *10*	^{131}Sn(56.0 s)	1226.03(†100), 798.50(†86), 304.33(†32.0)
450.1 *2*	0.33 *10*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
450.1 *2*	0.10 *5*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
450.1 *2*	1.3 *1*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
450.1 *3*	†0.37 *4*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
450.1 *4*	†6.1 *18*	^{155}Er(5.3 m)	110.12(†100), 241.5(†65), 234.0(†40.0)
450.2 *1*	6.3 *13*	^{75}Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
450.2 *1*	17.4 *10*	^{100}Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
450.3 *3*	†0.78 *16*	^{111}Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
450.30 *10*	0.92 *9*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
450.3 *1*	0.44 *4*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
450.3 *1*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
450.3 *10*	0.14 *3*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
450.4		^{180}Os(21.5 m)	20.1(†100), 717.4, 667.0
450.4 *2*	0.30 *8*	^{235}Th(7.1 m)	417.0(2), 727.2(0.87), 696.1(0.64)
450.48 *16*	0.154 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
450.5	0.06 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
450.5 *5*		^{180}Hg(2.8 s)	300.5(†100), 381.2(†69), 479.9(†23.0)
450.5 *5*	†16	^{180}Hg(2.8 s)	300.5(†100), 381.2(†69), 479.9(†23.0)
450.52 *16*	26.6 *8*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
450.52 *3*	3.3	^{200}Pb(21.5 h)	147.63(37.7), 257.17(4.46), 235.63(4.30)
• 450.559 *3*	0.0281 *23*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
450.58 *7*	3.3	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
450.58 *7*	50 *4*	^{148}Pr(2.0 m)	301.702(95), 697.61(40), 1556.7(4.9)
450.6 *2*	1.30 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
450.6 *2*	0.18 *3*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
450.69 *18*	0.22 *4*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
450.69 *11*	0.15 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
450.7 *1*	6.82 *19*	^{92}Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
450.7 *2*	0.7 *1*	^{117}Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
450.7	†3.1	^{144}Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
450.7 *1*	†3.6 *8*	^{180}Au(8.1 s)	153.3(†100), 524.3(†29), 257.6(†26)
450.72 *5*	0.56 *9*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
450.761 *10*	1.22 *9*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
450.8 *4*	0.052 *17*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
450.80 *10*	0.240 *18*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
450.8 *15*	†0.8	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
450.81 *15*	0.070 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
450.85 *2*	0.011 *4*	^{85}Kr(4.480 h)	151.159(75.0), 129.820(0.300), 731.812(0.007)
450.85 *2*	†1.06 *5*	^{85}Sr(67.63 m)	151.159(†1272), 129.820(†15), 731.812(†1.45)
450.87 *8*	1.69 *9*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
450.9 *10*	0.109 *25*	^{70}As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
450.9 *3*	0.034 *9*	^{112}Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
450.93 *4*	0.0039 *19*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
450.93 *4*	†3.00×10^3 *16*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 450.93 *4*	1.15 *5*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
450.94 *13*	0.017 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
450.97 *3*	24.2 *13*	^{106}Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 450.97 *3*	28.2 *7*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
451.0 *3*	†1.39 *15*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
• 451.0 *7*	0.18 *7*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
451.0 *10*	0.087 *25*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
451.0	†49 *9*	^{189}Tl(2.3 m)	333.7(†100), 942.2(†69), 522.3(†27)
451.0 *7*	4.9 *11*	^{194}Tl(32.8 m)	636.5(99), 428.0(99), 748.9(76)
451.06 *7*	0.024	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
451.1 *3*	0.27 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
451.1	†70	^{163}Ta(10.6 s)	396.0(†100), 448.7(†60), 210.0(†50)
451.15 *22*	0.0062 *6*	^{104}Rh(42.3 s)	555.796(2.0), 1237.2(0.066), 767.72(0.011)
451.15 *22*		^{104}Ag(33.5 m)	555.796(91), 1238.0(3.87), 2276.7(2.46)
451.2 *2*	0.110 *22*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
451.20 *6*	1.01 *5*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
451.2 *2*	0.0025 *10*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
451.3 *3*	†0.94 *14*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
451.3 *5*	0.010 *10*	^{114}Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
451.3 *4*	0.67 *22*	^{129}Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
451.3	†>1.5	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
451.3	>0.026	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
451.305 *14*	0.0089 *12*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
• 451.370 *3*	0.0098 *23*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
• 451.40 *2*	0.288 *23*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
451.4 *2*	1.34 *10*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
451.40 *20*	0.60 *6*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
• 451.418 *15*	0.0407 *9*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
451.42 *10*	1.06 *8*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
451.44 *3*	2.24 *15*	^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
• 451.483 *9*	0.0001894 *16*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
451.50 *20*	0.32 *6*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
451.5 *4*	0.29 *7*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
451.5 *4*	>0.13	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
451.5 *3*	1.26 *24*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
451.5	†0.58 *16*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
• 451.521 *14*	2.984 *22*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
451.58 *7*	0.19 *3*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
451.6 *1*	>0.19	^{48}K(6.8 s)	3832.2(78), 780.25(31.0), 675.05(16.8)
451.6 *1*	†9.3 *12*	^{49}K(1.26 s)	3832.2(†116)
451.6 *7*	0.55 *12*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
451.63 *19*	0.91 *8*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
451.63 *3*	0.318 *14*	^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
451.64 *8*	0.95 *4*	^{180}Lu(5.7 m)	407.94(43.0), 1199.7(24.3), 1106.00(22.7)
451.7 *4*	0.09 *3*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
451.7 *3*	†2.14 *21*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
451.73 *9*	0.023 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
451.8 *3*	0.53 *4*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
451.8 *7*	0.31 *3*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
451.84 *3*	1.34 *10*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
451.846 *22*	1.91 *7*	^{204}Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
451.88 *20*	0.51 *4*	^{107}Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
451.9 *2*	9.8 *12*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
451.9 *3*	†0.76 *9*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
451.90 *10*	0.240 *18*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
451.9 *4*	0.07 *4*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
451.9 *2*	†5.9 *6*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
451.9 *2*	†4.3 *5*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
452		^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
452.0 *4*	11.0 *6*	^{98}Ag(46.7 s)	863.1(100), 678.5(85), 570.93(53)
452.0 *2*	0.5	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
452		^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
452.0	0.029 *12*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
452.0 *1*	0.13	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
452.03 *2*	1.74 *10*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
• 452.04 *5*	0.204 *13*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
452.1 *4*	0.39 *4*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
452.1 *1*	4.4 *3*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
452.1	3.3	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
452.1 *3*	0.089 *13*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 452.16 *13*	0.014 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
452.18 *10*	0.024	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
452.2 *2*	0.059 *10*	^{161}Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
452.2 *2*	0.30 *7*	^{174}Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
452.248 *24*	0.160 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
452.3 *2*	0.00069 *7*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
452.323 *2*	18.18 *5*	^{131}Te(25.0 m)	149.716(69), 1146.96(4.95), 492.66(4.826)
• 452.323 *2*	2.0 *5*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
452.39 *8*	0.052 *9*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
452.4 *3*	0.073 *9*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
452.4	0.18	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
• 452.4 *1*	0.118 *10*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
452.4 *3*	0.027 *8*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 452.4 *5*	0.030 *8*	^{252}Es(471.7 d)	52.33(0.55), 64.42(0.274), 418.5(0.220)
• 452.42 *8*	0.068 *9*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 452.47 *5*	0.322 *14*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
452.47 *10*	0.016 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
452.5 *2*	4	^{199}Po(5.48 m)	246.0(28), 845.7(23), 206.7(5.1)
452.6 *2*	†24.1 *20*	^{155}Er(5.3 m)	110.12(†100), 241.5(†65), 234.0(†40.0)
452.6 *3*	†100 *14*	^{191}Tl(5.22 m)	470.1(†98), 391.6(†96), 216.0(†96)
• 452.6 *2*	†2.40×10^4 *24*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 452.62 *8*	1.6×10^{-5} *4*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
452.7 *1*	2.46 *18*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
452.7 *6*	0.00198 *18*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 452.7 *6*	†0.007	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
452.8 *3*	0.15 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
452.8 *3*	0.18 *8*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
452.8 *5*	†0.06 *2*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
452.80	0.10	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
452.83 *10*	0.31 *6*	^{212}Bi(60.55 m)	39.858(1.091), 288.07(0.31), 327.96(0.139)
• 452.84 *8*	0.156 *8*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
452.85 *7*	17.2 *9*	^{156}Tm(83.8 s)	344.55(86), 585.93(14.6), 585.9(>15)
452.9 *1*	0.12 *6*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
453.0 *6*	0.6 *3*	^{162}Tm(24.3 s)	811.52(6.5), 798.68(5.2), 227.52(5)
453.0	0.049	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
453.0 *1*	†3.3 *4*	^{225}Fr(4.0 m)	182.3(†100), 31.50(†91), 225.1(†55)
453.02 *8*	0.37 *4*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
453.1 *2*	2.3 *10*	^{103}Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
453.1 *4*	0.30 *8*	^{157}Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
453.1 *1*	1.45 *8*	^{251}Fm(5.30 h)	880.8(2.19), 405.6(0.99), 349.9(0.82)
453.11 *4*	0.176 *19*	^{71}Zn(2.45 m)	511.56(32), 910.27(7.8), 389.88(3.8)
453.11 *4*	1.12 *9*	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
453.15 *7*	†19.9 *12*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
453.2 *1*	3.81 *16*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
453.2 *2*	0.55 *10*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
• 453.2 *1*	0.0023 *3*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
453.2 *3*	0.100 *20*	^{237}Am(73.0 m)	280.23(47.3), 438.4(8.3), 473.5(4.3)
453.21 *9*	0.016 *3*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
453.27 *5*	1.00 *4*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
453.31 *19*	0.133 *14*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
453.34 *2*	0.073 *5*	^{188}Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 453.34 *2*	0.031 *12*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
453.4 *2*	15	^{139}Eu(17.9 s)	267.3(31), 155.3(31), 190.1(25)
453.4 *2*	13 *4*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
453.4 *4*	1.89 *21*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
453.40 *6*	0.14 *3*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
• 453.40 *6*	0.026 *5*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
453.4 *3*	†5	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
453.4 *5*	<0.5	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
• 453.42 *6*	0.035 *3*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
453.47 *6*	0.40 *11*	^{157}Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
453.5 *10*	0.77 *21*	^{129}Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
453.5 *2*	†4.0 *12*	^{129}Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
453.5 *3*	†17 *3*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
453.5 *1*	†4.4 *7*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
453.5 *2*	0.222 *8*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
453.58 *10*	†1.90×10^3 *16*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
453.6 *2*	2.6 *3*	^{76}Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
453.6 *1*	0.105 *17*	^{94}Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 453.655 *5*	8.61 *19*	^{232}Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
453.659 *15*	5.88 *13*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
453.7 *2*	0.605 *23*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
453.7 *3*	†0.88 *9*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
453.70 *15*	0.32 *6*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
453.7 *5*	0.09	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
453.7	0.08	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
453.796 *11*	4.69 *10*	^{125}Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
453.8 *3*	2.21 *20*	^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
453.8 *3*	0.036 *20*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
453.80 *10*	0.51 *7*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
453.8 *3*	†13 *4*	^{171}Ho(53 s)	903.3(†100), 198.6(†88), 279.2(†60)
453.86 *8*	1.58 *10*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
453.88 *6*	48.0 *24*	^{146}Pr(24.15 m)	1523.7(15.6), 735.72(7.5), 788.6(6.3)
• 453.88 *6*	65 *2*	^{146}Pm(5.53 y)	735.72(22.5), 589.3(0.42), 146.4(0.21)
453.9 *3*	0.042 *5*	^{45}K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
453.93 *15*	19.7 *9*	^{78}Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
454.0 *3*	†1.7 *5*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
454.0 *10*	0.26 *10*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
454.03 *6*	0.61 *4*	^{143}La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
454.05 *1*	0.023 *10*	^{178}Lu(23.1 m)	426.383(97.0), 325.562(94.1), 213.440(81.4)
454.07 *9*	0.238 *23*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
454.08 *9*	0.18 *4*	^{205}Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
454.1 *2*	†80 *4*	^{231}Fr(17.5 s)	432.6(†100), 95.6(†17)
454.20 *9*	45	^{85}Zr(7.86 m)	416.3(27.0), 1198.4(4.8), 266.3(2.57)
454.2 *2*	0.0036 *7*	^{135}Xe(9.14 h)	249.770(90), 608.151(2.90), 408.009(0.359)
454.20 *3*	0.033 *4*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
454.2 *5*	0.040	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
454.25 *5*	0.25 *3*	^{123}Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
454.25 *5*	0.45 *5*	^{123}Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
454.28 *2*	1.58 *10*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
454.3 *3*	0.00054 *22*	^{109}Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
454.3		^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
454.3 *4*	0.044 *12*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
454.3 *4*	0.42 *8*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
454.38 *7*	0.108 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
454.40 *20*	2.39 *6*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
454.4 *5*	0.031 *10*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
454.4 *5*	0.18 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
• 454.4 *4*	0.014 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
454.46 *13*	0.258 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
• 454.472 *3*	0.0198 *20*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
454.5 *2*	1.12 *18*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
454.5 *3*	1.5 *3*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
454.551 *11*	0.288 *21*	^{182}Os(22.10 h)	510.056(52), 180.230(33.5), 263.285(6.71)
• 454.565 *12*	0.00082	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
454.565 *12*	0.0120 *12*	^{239}Am(11.9 h)	277.599(15.0), 228.183(11.3), 209.753(3.50)
454.6 *3*	0.044 *22*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
454.6 *2*	0.046 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
454.6 *1*	†3.0 *15*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
454.6 *5*		^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
454.63 *9*	0.017 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
454.66 *6*	0.151 *9*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 454.66 *8*	†9.7×10^4 *3*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 454.66		^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 454.67 *5*	0.15 *3*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
454.70 *10*	13.1 *8*	^{72}Br(78.6 s)	862.03(70), 1316.70(17.3), 2371.9(7.5)
454.7 *4*	1.06 *15*	^{113}Rh(2.72 s)	189.7(17.0), 409.3(15.9), 219.6(3.88)
454.7 *1*	†4.5 *5*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
454.76 *15*	0.0039 *5*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
454.77 *2*	2.10 *12*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
454.77 *12*	0.282 *9*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
454.8 *5*	15 *4*	^{73}Kr(27.0 s)	177.8(65.8), 62.5(19.1), 151.1(12.5)
454.8 *1*	0.080 *17*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
454.8 *5*	†9	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
454.893 *23*	0.0295 *19*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
454.95 *5*	8	^{230}Ac(122 s)	508.20(5.15), 1243.9(3.50), 1347.7(1.57)
• 454.95 *5*	6.27 *16*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 898.68(5.8)
• 454.95 *5*	0.000025 *7*	^{234}U(2.455×10^5 y)	53.20(0.123), 120.90(0.0342), 508.20(0.000015)
454.954 *17*	0.318 *11*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
454.97 *5*	0.007 *3*	^{78}Br(6.46 m)	
454.97 *5*	63	^{78}Rb(17.66 m)	692.86(12.56), 562.15(11.41), 3438.16(10.8)
454.97 *5*	81	^{78}Rb(5.74 m)	664.44(38.3), 1109.72(13.12), 692.86(12.26)
454.97 *15*	†2.2 *10*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
455.0	0.36	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
455.00 *15*	9.3 *3*	^{157}Tm(3.63 m)	385.5(8.8), 348.40(8.4), 110.35(8.2)
455.0 *5*	†94 *15*	^{190}Bi(6.3 s)	773.8(†100), 506.2(†92), 846.4(†70)
455		^{217}At(32.3 ms)	258.5(0.056), 593.1(0.0120), 334
455.04 *10*	0.82 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
455.1		^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
455.1 *5*	0.06 *4*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
• 455.1 *1*	0.008	^{235}U(7.038×10^8 y)	185.712(57.2), 143.764(10.96), 163.358(5.08)
455.14 *18*	0.483 *24*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
455.18 *19*	1.27 *8*	^{82}Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
455.2 *3*	2.1 *5*	^{114}Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
455.2 *5*	0.4 *2*	^{129}Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
455.23 *2*	0.28 *8*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
455.28 *10*	0.11 *4*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
• 455.30 *15*	0.027 *3*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
455.3 *2*	1.8 *4*	^{151}Er(23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
455.3 *4*	0.18 *9*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
455.333 *18*	1.48 *8*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
• 455.376 *30*	0.016 *16*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
455.4 *6*	0.07	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
455.4 *2*	4.8 *5*	^{130}Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
455.46 *3*	12.4 *6*	^{199}Tl(7.42 h)	208.20597(12.3), 247.26(9.3), 158.37947(4.96)
455.490 *3*	31	^{137}Xe(3.818 m)	848.95(0.62), 1783.43(0.415), 1273.23(0.228)
455.5 *1*	0.44 *4*	^{96}Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
455.5 *1*	0.2	^{97}Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
455.5	0.10	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
• 455.50 *10*	0.130 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
455.5 *2*	†1.70 *21*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
455.6 *3*	0.152 *15*	^{135}Te(19.0 s)	603.5(37.0), 266.8(10.36), 870.3(7.73)
455.6 *2*	0.006 *2*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
455.6 *3*	0.047 *7*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
455.60 *6*	0.0031	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
455.62 *15*	0.021 *3*	^{85}Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
455.64 *12*	1.46 *3*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
455.7 *2*	12 *3*	^{150}Tb(5.8 m)	638.05(100), 650.4(70), 438.37(42)
455.7	0.029 *12*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
455.8 *5*	†0.16 *2*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
455.8 *3*	0.090 *20*	^{237}Am(73.0 m)	280.23(47.3), 438.4(8.3), 473.5(4.3)
• 455.84 *13*	0.0013 *6*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
455.89 *5*	0.42 *8*	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
455.9 *2*	0.163 *22*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
455.9 *3*	†7.4 *13*	^{155}Er(5.3 m)	110.12(†100), 241.5(†65), 234.0(†40.0)
455.92 *15*	0.127 *24*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
455.94 *10*	0.76 *5*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
456.0 *8*	0.042	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
• 456 *1*	0.11 *7*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
• 456.05 *13*	0.038 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
456.08 *9*	0.10 *3*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
456.093 *25*	0.0425 *21*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
456.1 *2*	0.54 *5*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
456.11 *6*	0.0138 *17*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
456.2 *1*	†8.8 *10*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
456.2 *1*	0.14 *4*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
456.2 *2*	†59 *7*	^{231}Ra(103 s)	409.92(†100), 204.98(†93), 469.3(†75)
456.2		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
456.23 *4*	0.70 *4*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
456.3 *2*	1.8 *3*	^{81}Ge(7.6 s)	93.10(26), 335.98(12.8), 197.30(12.3)
456.3 *2*	0.060 *18*	^{89}Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
456.3 *4*	0.07 *4*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
456.31 *16*	†2.5 *3*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
456.34 *7*	2.92 *9*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
456.34 *10*	0.041 *9*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
456.35 *10*	0.10 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
456.4 *2*		^{130}Pr(40.0 s)	951.9, 499.0, 1405
• 456.42 *15*	†0.082 *21*	^{102}Rh(207 d)	475.070(†47), 628.05(†4.6), 1103.16(†2.99)
• 456.459 *15*	1.25 *6*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
456.5 *5*	0.46 *23*	^{98}Y(2.0 s)	1223.0(80), 620.505(63), 647.58(53)
456.5 *4*	†3.0 *8*	^{132}Pr(1.6 m)	325.5(†100), 496.9(†25), 822.4(†17.3)
• 456.5 *1*	3.36 *16*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
456.5 *3*	†1.23 *41*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
456.6 *3*	0.70 *10*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
456.6 *5*	0.33 *13*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
456.600 *26*	0.233 *10*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
456.6 *4*	†11 *3*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
456.63 *23*	0.23 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 456.638 *9*	0.71 *3*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
456.68 *11*	0.080 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
456.68 *13*	0.28 *4*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
456.7 *3*	1.8 *3*	^{97}Y(1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
456.7 *5*	>1.4	^{131}Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
456.7 *12*		^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
456.7 *10*	†7.1×10^2 *15*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
456.74 *14*	0.023 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
456.75 *2*	1.78 *13*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
456.76 *5*	3.02 *9*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
456.76 *5*	0.0087 *16*	^{81}Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
• 456.78 *3*	0.0239 *12*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 456.79 *5*	0.0356 *22*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
456.79 *5*	0.067 *15*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
• 456.79 *3*	0.141 *5*	^{173}Lu(1.37 y)	272.105(21.2), 78.63(11.87), 100.724(5.24)
456.8 *3*	0.48 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
456.8 *2*	†34	^{153}Ho(9.3 m)	108.7(†100), 365.9(†92), 161.5(†83)
456.8 *2*	0.7	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
456.81 *6*	†37	^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
456.89 *19*	2.15 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
456.9 *5*	†0.8 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
457.0 *1*	†4.5 *4*	^{75}Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
457.0 *1*	8.0 *6*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 253.8(8.0)
457	†6.4	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
457.0 *1*	0.0068 *14*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
457.0 *2*	†21	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
457.07 *5*	0.138 *13*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
457.1 *1*	0.373 *14*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
457.1 *2*	2.6 *3*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
457.1 *3*	0.16 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
457.17 *15*	0.0154 *24*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
457.19 *6*	0.60 *16*	^{63}Ga(32.4 s)	637.04(11), 627.10(10.3), 192.94(5.7)
457.2 *5*	0.106 *11*	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
457.2 *2*	0.69 *12*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
457.2 *4*	0.273 *20*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
457.24 *13*	0.15	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
457.26 *15*	0.109 *11*	^{142}Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
457.30 *10*	0.91 *6*	^{97}Rh(30.7 m)	421.55(75), 840.13(12.0), 878.80(9.0)
457.3 *5*	4.23 *11*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
457.34 *6*	0.75 *5*	^{146}La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
457.38 *19*	0.29 *4*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
457.4 *5*	0.03 *1*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
457.4 *3*	†10.2 *21*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
457.41 *10*	3.46 *15*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
• 457.5 *10*	0.0045 *22*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
457.5 *1*	†1.90 *19*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
457.5 *2*	0.26 *7*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
• 457.5 *10*	†0.0041	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
457.56 *9*	0.382 *21*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
457.59 *3*	0.304 *10*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
457.6 *3*	0.108 *9*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
457.6 *1*	8.0 *18*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
• 457.603 *29*	0.0068 *5*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
457.630 *19*	59	^{140}I(0.86 s)	376.657(91), 936.7(16), 564.4(11)
• 457.65 *4*	1.49×10^{-6} *2*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
457.68 *5*	†100	^{173}W(7.5 m)	130.19(†31.5), 174.8(†29.1), 623.48(†24.2)
457.7 *5*	2	^{116}Ag(10.4 s)	513.39(92), 705.82(61), 1028.90(30.4)
• 457.72 *12*	0.0033 *8*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
457.72 *3*	0.237 *15*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
• 457.76 *5*	0.154 *9*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
457.77 *5*	0.117 *20*	^{200}Pb(21.5 h)	147.63(37.7), 257.17(4.46), 235.63(4.30)
457.8	5.01 *14*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
457.80 *13*	0.40	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
457.8 *10*	0.57 *17*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
457.81 *19*	0.36 *10*	^{122}In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
457.9 *4*	0.5 *4*	^{138}Pr(2.12 h)	1037.8(101), 788.742(100), 302.7(80)
• 457.90 *15*	0.0215 *18*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
457.90 *4*	0.039 *6*	^{177}Yb(1.911 h)	150.392(20.3), 1080.21(5.6), 1241.2(3.47)
457.9		^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
457.9 *1*	†16.4 *5*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
458.00 *15*	5.9 *3*	^{78}Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
458.0 *1*	0.56 *4*	^{94}Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
458.0 *1*	0.0029	^{95}Rb(377.5 ms)	836.9(2.9), 1089.4(0.14), 1309.1(0.12)
458.0 *2*	0.055 *8*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
458.0 *7*	0.11 *6*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
458.0 *2*	†20 *5*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 778.0(†17)
• 458.0 *5*	0.05 *5*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
458.1	0.22	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
458.1 *5*	†6	^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
458.11 *5*	0.076 *8*	^{143}Sm(8.83 m)	1056.58(4), 1514.98(1.39), 1173.18(0.88)
458.2 *1*	2.10 *15*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
458.2 *2*	†3 *1*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
458.22 *16*	2.86 *10*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
458.221 *20*	0.21	^{182}Os(22.10 h)	510.056(52), 180.230(33.5), 263.285(6.71)
458.23 *8*	0.0033 *17*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
458.25 *7*	1.7	^{210}Rn(2.4 h)	648.70(0.843), 570.95(0.840), 72.70(0.59)
458.3 *11*	0.052 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
458.3 *2*	0.066 *22*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
458.3 *3*	2.8 *4*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
458.3 *6*	0.18 *7*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
458.3 *4*	0.28 *14*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
458.36 *6*	0.034 *7*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
• 458.36 *6*	0.044 *5*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
458.4	0.18	^{95}Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
458.4 *3*	0.043 *15*	^{143}Eu(2.63 m)	1107.3(8), 1536.8(3.29), 1912.7(2.13)
458.400 *15*	0.56 *9*	^{174}Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
458.4 *2*	†76 *5*	^{202}Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)
458.42 *25*	0.26 *6*	^{70}Se(41.1 m)	49.51(35.8), 426.15(29), 376.65(9.43)
458.5 *3*		^{58}Mn(65.3 s)	810.764(<0.026), 1323.09(6.44), 459.160(21.4)
458.5 *5*	0.07 *2*	^{116}In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
458.5 *1*	0.0038 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
458.5 *5*	†4.8 *10*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
458.6 *10*	†48	^{77}Ga(13.2 s)	469.4(†100), 2187.3, 1242.3
458.68 *5*	1.13 *6*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
458.70 *20*	1.7 *3*	^{102}Zr(2.9 s)	599.60(13.9), 535.30(10.6), 64.50(8.9)
458.7 *1*	5.6 *6*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
458.7 *3*	0.47 *4*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
458.7 *3*	0.91 *9*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
458.7 *3*	0.79 *8*	^{190}Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
• 458.7 *1*	0.043 *8*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
458.77 *12*	†12.4 *6*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
458.77 *12*	†<12.4	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
• 458.8 *2*	0.0054 *22*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
458.92 *6*	1.34 *10*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
458.97 *14*	†10.0 *10*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
459.0 *10*	6 *3*	^{73}Kr(27.0 s)	177.8(65.8), 62.5(19.1), 454.8(15)
459.0 *3*	†1.9 *4*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
459.0 *4*	0.7 *3*	^{122}Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
459.0	0.6	^{134}Nd(8.5 m)	163.2(58), 288.9(13), 216.8(12)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
459.05 *8*	0.296 *17*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
459.05 *3*	0.109 *10*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
459.069 *11*	27 *3*	^{183}Hf(1.067 h)	783.754(66), 73.174(38), 397.859(2.9)
459.08 *4*	0.117 *13*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
459.1 *5*	2.0 *3*	^{65}Ge(30.9 s)	649.7(33), 62.0(27), 809.1(21.5)
459.1	0.013	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
459.1 *2*	2.13 *25*	^{151}Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
459.10 *9*	0.032 *4*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
459.160 *25*	21.4 *6*	^{58}Mn(65.3 s)	810.764(<0.026), 1323.09(6.44), 863.935(14.8)
459.2 *5*	1.89 *11*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
459.2 *4*	†14.2 *20*	^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
459.2 *2*	0.015 *9*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
459.222 *7*	1.4	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 94.66(0.8)
459.3 *4*	0.179 *19*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
459.3 *2*	†15	^{134}Pm(24 s)	294.2(†100), 494.7(†60), 631.3(†10)
459.30 *4*	5.5 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
459.4 *5*	0.043 *12*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
459.4 *4*	0.73 *16*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
459.4 *4*	0.15 *8*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
459.43 *7*	†15.7 *5*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
459.48	0.06	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
459.5 *2*	4.2 *5*	^{119}Cs(43.0 s)	176.05(29.7), 225.13(26), 257.9(17.4)
459.5 *3*	1.5 *3*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
• 459.5 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
459.5 *2*	†1.70 *21*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
459.5 *3*	0.0110 *16*	^{247}Cf(3.11 h)	294.1(0.98), 447.8(0.55), 417.9(0.34)
459.52 *11*	0.95 *20*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
459.52 *15*	2.3 *3*	^{186}Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
459.55 *6*	0.48 *6*	^{123}Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
459.6 *2*	0.11 *3*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
459.60 *5*	7.70 *23*	^{129}Te(69.6 m)	27.81(16.3), 487.39(1.42), 278.43(0.567)
• 459.60 *5*	0.00122 *23*	^{129}Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
459.600 *15*	2.51 *5*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
459.60 *20*	0.084 *17*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
459.6		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
459.62 *19*	†4.2 *8*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
• 459.68	†3.6×10^{4} *3*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^{9}), 33.195(†6000×10^{8})
459.69 *3*	1.69 *11*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
459.7 *2*	12.0 *5*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 234.5(4.7)
459.7 *3*	0.21 *5*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
459.72 *7*	8.6 *5*	^{202}Pb(3.53 h)	490.47(9.1), 389.94(6.2), 241.1(0.84)
459.8 *1*	0.089 *4*	^{66}Ga(9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)
459.8 *4*	0.21 *9*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
459.8 *3*	0.21 *9*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
459.8 *3*	†3.0 *12*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
459.8	0.006 *3*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
459.80 *10*	1.15 *18*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
459.8 *2*	†7 *1*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
• 459.8 *2*	8.0×10^{-6} *8*	^{233}U(1.592×10^{5} y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
• 459.80 *22*	0.003	^{238}Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
• 459.80 *22*	6×10^{-8} *4*	^{242}Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
• 459.814 *5*	0.579 *6*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
459.88 *12*	26.62 *19*	^{96}Nb(23.35 h)	778.224(96.45), 568.80(58.0), 849.929(20.45)
• 459.88 *12*	0.43 *4*	^{96}Tc(4.28 d)	778.224(100), 849.929(98), 812.581(82)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
459.88 *12*	0.0028 *8*	^{96}Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
459.9 *3*	0.37 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
459.9	3.19 *23*	^{140}Eu(1.51 s)	530.7(29), 1068.0(3.2), 2064.9(0.93)
459.92 *5*	0.96 *5*	^{204}Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
460		^{115}I(1.3 m)	709, 284, 275
460.0 *3*	0.15 *5*	^{117}Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
460		^{126}La(54 s)	625, 340, 256.10
460.0 *3*	†2.0	^{149}Ce(5.3 s)	57.7(†100), 380.0(†33.7), 86.4(†20.2)
460.0 *2*	2.07 *22*	^{167}Ho(3.1 h)	346.547(56), 321.336(23.5), 237.873(5.0)
460.0 *3*	0.076 *12*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
460.02 *5*	0.523 *25*	^{88}Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
460.05 *10*	3.03 *5*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
460.1 *4*	0.0008 *3*	^{57}Mn(87.2 s)	122.0614(13.9), 14.41300(10.56), 692.03(5.50)
460.1 *1*	0.032 *3*	^{128}Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
460.1 *7*	0.38 *7*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
460.16 *18*	0.25	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
460.2 *2*	0.9 *3*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
• 460.263 *16*	4.12 *14*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
460.3 *3*	0.24 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
460.40 *5*	0.062 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
460.5 *4*	0.00010	^{104}Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
460.5 *3*	†16 *5*	^{131}Nd(27 s)	87.8(†100), 174.42(†34), 164.09(†25)
460.5	0.07	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
460.5	0.125 *24*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
460.5	2.4	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
460.5 *2*	0.41 *9*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
460.5 *8*	0.3 *2*	^{181}Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
• 460.50 *3*	3.95 *20*	^{193}Os(30.5 h)	139.03(4.27), 73.039(3.2), 557.36(1.30)
• 460.57 *3*	0.121 *3*	^{97}Ru(2.9 d)	215.718(86), 324.48(10.79), 569.31(0.873)
• 460.57 *3*	0.417 *18*	^{148}Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 460.57 *3*	0.0187 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
460.59 *2*	1.07 *3*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 460.6 *5*	0.14 *7*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
460.6 *1*	7.2 *4*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
460.7 *2*	0.40 *8*	^{105}Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
460.7 *2*	0.39 *13*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
460.7 *3*	†1.5	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
460.7 *4*	†16 *3*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
460.7 *3*	0.128 *14*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
460.73 *5*	0.60 *4*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
460.73 *13*	0.027 *4*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
• 460.80 *20*	0.0187 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
460.84 *5*	0.24 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
460.9 *1*	0.54 *7*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
460.9 *3*	0.92 *8*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
460.9 *5*	†1.9	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
460.9 *5*	0.040 *10*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
460.923 *9*	0.97 *7*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
460.94 *4*	1.62 *13*	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
460.94 *6*		^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
460.997 *22*	9.9 *6*	^{134}Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
461.00	0.9 *1*	^{34}Ar(844.5 ms)	665.54(2.5), 3128.9(1.30), 2580.2(0.863)
461.0 *2*	7.7 *4*	^{136}Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
461	†7.2	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
461.0 *2*	†18.1 *18*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
461	†11 *3*	^{210}Fr(3.18 m)	643.8(†100), 817.6(†60), 203.1(†35)
461 *1*	0.9	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
461.0 *1*	0.090 *6*	^{251}Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
461.04 *3*	10.7 *3*	^{184}Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
461.046 *11*	0.065 *9*	^{155}Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
461.081 *5*	0.11 *3*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
461.09 *11*	†12.1 *6*	^{32}Ar(98 ms)	1168.4(†32.8), 707.4(†12.1), 1078.5(†12.0)
461.1	2.3	^{110}In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
461.1 *5*	†8	^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
461.2 *2*	6.4 *8*	^{100}Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
• 461.20 *15*	0.0121 *18*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
461.2 *2*	0.0032 *12*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 461.258 *24*	0.056 *9*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
• 461.260 *4*	2.27×10^{-6} *2*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
461.3 *5*	0.10 *3*	^{63}Fe(6.1 s)	994.8(14.0), 1427.2(4.6), 1299.0(1.23)
461.30 *4*	0.62 *12*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
461.38 *3*	1.27 *3*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
461.4 *4*	0.103 *15*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
461.4 *8*	6.9 *3*	^{173}Tm(8.24 h)	398.9(88), 62.6(0.9)
461.4	>0.017	^{251}Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
461.41 *8*	0.059 *11*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
461.41 *7*	1.44 *8*	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
461.5 *1*	1.224 *23*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
461.5 *3*	†20 *4*	^{85}As(2.028 s)	1111.5(†100), 3749.4(†23), 3345.0(†14.2)
461.5 *6*	†91 *7*	^{119}Xe(5.8 m)	231.8(†100), 98.5(†95), 207.8(†60)
461.5 *2*	0.54 *4*	^{162}Tm(24.3 s)	811.52(6.5), 798.68(5.2), 227.52(5)
461.5 *5*	0.42 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
461.5 *1*	0.034 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
461.5 *1*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
461.52 *7*	0.43 *3*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
461.6 *3*	†3.4 *1*	^{114}Te(15.2 m)	90.28(†100), 83.8(†67), 1417.6(†32)
461.6 *3*	0.046 *9*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
461.6 *1*	†2.0 *2*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
461.61 *5*	0.81 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
461.61 *15*	0.254 *20*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
461.7 *23*	†2	^{87}Nb(2.6 m)	200.95(†100), 470.63(†73), 1066.8(†37)
461.70 *20*	11.0 *5*	^{99}Zr(2.1 s)	469.140(55), 546.13(48.6), 593.990(27.4)
461.70 *10*	1.01 *14*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
461.70 *15*	0.119 *24*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 461.761 *15*	0.826 *19*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
461.80 *13*	4.7	^{110}In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
461.8 *2*	0.8 *2*	^{151}Er(23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
461.83 *6*	1.11 *15*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
461.845 *12*	0.62 *3*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
461.85 *10*	1.48 *12*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
461.87 *17*	†5 *1*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
461.9 *8*	0.00067 *10*	^{107}Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
461.9	2.3 *13*	^{147}Cs(0.225 s)	85.2(7.3), 245.8(4.5), 109.7(4.5)
461.9 *3*	0.20 *7*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
461.9 *2*	†18.5 *25*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
461.9 *7*	0.23 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
461.90 *10*	0.42 *6*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
461.9 *2*	1.0 *4*	^{220}Ra(25 ms)	

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 461.9 *4*	0.0016	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
• 461.9 *4*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
461.93 *7*	0.85 *8*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
461.96 *11*	0.047 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
461.98 *8*	0.303 *16*	^{224}Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
• 462.0 *3*	0.0015 *3*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
462.04 *20*	>0.00023	^{129}Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
462.06 *8*	0.036 *5*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
462.1 *3*	0.081 *9*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
462.10 *4*	0.38 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
462.1	0.11	^{148}Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
462.1	0.22	^{149}Ho(21.1 s)	1090.7(74.8), 1073.2(6.37), 1583.6(4.48)
462.1 *1*	†0.77 *8*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
462.1 *3*	0.06	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
462.1 *2*	0.23 *3*	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
462.11 *11*	†10.3 *21*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
• 462.13 *38*	0.0042 *14*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
462.14 *8*	2.61 *14*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
462.15	0.17	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
462.2 *2*	0.59 *5*	^{78}As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
462.2 *1*	0.095 *5*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
462.2 *5*	†3.1	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
462.2 *2*	†9.2 *10*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
462.2 *5*	0.040 *20*	^{223}Ac(2.10 m)	98.58(0.891), 191.3(0.58), 83.55(0.57)
462.23 *3*	1.55 *22*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
• 462.24 *13*	0.036 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
462.3	4.88 *14*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
462.3 *1*	0.127 *11*	^{143}La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
462.31 *5*	5.07 *5*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 587.01(4.21)
462.34 *10*	0.041 *21*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
462.34 *13*	98 *3*	^{200}Bi(36.4 m)	1026.5(100), 419.70(91), 245.154(46)
462.34 *13*	†45.7 *24*	^{200}Bi(31 m)	1026.5(†110), 419.70(†26.0), 245.154(†5.6)
462.4 *2*	2.2 *3*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
462.4 *3*	0.7 *3*	^{180}Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
• 462.4 *4*	0.0017 *9*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
462.4 *2*	†43 *6*	^{231}Ra(103 s)	409.92(†100), 204.98(†93), 469.3(†75)
462.5 *2*	†100	^{113}I(6.6 s)	622.4(†74), 351.5(†43), 567.4(†36)
462.5 *4*	0.8 *2*	^{130}Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
• 462.50 *21*	0.019 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
462.5 *7*	4.6 *15*	^{194}Tl(32.8 m)	636.5(99), 428.0(99), 748.9(76)
• 462.59 *5*	0.142 *3*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
462.6	0.44	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
462.6 *2*	0.23 *4*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
462.6 *7*	0.59 *6*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
462.61 *5*	3.66 *21*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 374.28(3.0)
462.63 *5*	0.65 *17*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
462.63 *15*	0.108 *12*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
• 462.68 *5*	0.047 *9*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
462.7 *2*	9.8 *10*	^{84}Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
462.70 *6*	1.01 *10*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
462.7 *3*	4.0	^{128}Cd(0.34 s)	247.92(75), 857.05(71), 68.02(29)
462.7 *3*	2.5	^{128}Cd(0.34 s)	247.92(75), 857.05(71), 68.02(29)
462.7 *2*	0.034 *6*	^{146}Ce(13.52 m)	316.74(56), 218.23(20.8), 264.56(9.0)
462.796 *5*	30.7 *6*	^{138}Cs(33.41 m)	1435.795(76.3), 1009.78(29.8), 2218.00(15.2)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
462.796 *5*	18.6 *10*	^{138}Cs(2.91 m)	1435.795(19), 191.96(15.4), 112.60(1.52)
462.8 *3*	†45 *4*	^{143}Tb(12 s)	45.1(†100), 686.1(†48), 380.3(†43)
462.84 *8*	4.4 *5*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
462.9 *2*	†6.9 *9*	^{131}Ce(5.0 m)	230.43(†100), 436.85(†7.3), 568.95(†4.7)
462.9	0.06 *3*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
• 462.92 *5*	2.38 *5*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
• 462.92 *10*	0.053 *5*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
462.99 *7*	5.4 *5*	^{80}Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
463.0		^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
463.005 *4*	4.44 *11*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
463.005 *4*	1.250 *6*	^{228}Pa(22 h)	911.205(4.19), 964.770(4.25), 968.971(3.88)
463.04 *3*	0.75 *6*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
463.04 *3*		^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
463.08 *17*	0.30 *5*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
463.1 *3*	1.3 *3*	^{81}Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
463.1 *3*	1.4 *3*	^{81}Ge(7.6 s)	93.10(26), 335.98(12.8), 197.30(12.3)
463.1 *2*	4.1 *3*	^{139}Pm(4.15 m)	402.8(15), 367.8(3.52), 756.5(1.99)
463.1 *3*	0.58 *15*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
463.1 *2*	0.285 *15*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
• 463.1 *2*	†3.7×10^5 *11*	^{237}Pu(45.2 d)	280.40(†870000), 298.89(†7.85×10^6), 320.75(†6.48×10^6)
463.16 *8*	0.25	^{116}In(14.10 s)	1293.54(1.3), 1252.5(0.031), 2112.1(0.021)
463.16 *8*	0.83 *5*	^{116}In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
463.16 *8*	0.31	^{116}Sb(15.8 m)	1293.54(85), 931.800(24.7), 2225.33(14.2)
463.20 *10*	2.40 *5*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
• 463.22 *20*	†1.0×10^4	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 463.273 *20*	1.23 *8*	^{241}Cm(32.8 d)	471.805(71), 430.634(4.06), 132.413(3.86)
• 463.273 *20*		^{245}Bk(4.94 d)	205.879(0.040), 471.805(0.026), 164.8(0.0084)
463.28 *10*	0.25 *4*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
463.3 *4*	0.017 *17*	^{44}K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
463.3 *1*	†681 *67*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
• 463.365 *4*	10.493 *15*	^{125}Sb(2.7582 y)	427.875(30), 600.600(17.86), 635.954(11.31)
• 463.38 *5*	1.79 *7*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
463.40 *7*	0.0212 *24*	^{81}Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
463.4 *1*	0.22 *9*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
463.4 *5*	2.3 *11*	^{139}Eu(17.9 s)	267.3(31), 155.3(31), 190.1(25)
463.4 *1*	3.7 *5*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
463.4 *1*	0.026 *7*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
463.4 *2*	†30 *3*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
463.46 *18*	0.45 *17*	^{167}Ho(3.1 h)	346.547(56), 321.336(23.5), 237.873(5.0)
463.5 *1*	†62 *3*	^{135}Pm(49 s)	198.5(†100), 207.2(†70), 128.7(†60)
• 463.6 *7*	0.0009 *5*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
• 463.6 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
463.6 *4*	0.41 *5*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
463.6	>0.28	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
463.6 *3*	0.056 *19*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
463.60 *10*	0.029 *4*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 463.60 *10*	0.82 *6*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
• 463.67 *15*	0.0163 *17*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
463.7 *6*	0.15 *5*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
463.7 *5*	>0.35	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
463.7 *1*	9.9 *8*	^{143}Gd(39 s)	258.81(75), 204.77(19.4), 812.9(5.4)
• 463.7	>0.0021	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
463.7 *3*	0.16 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
463.7 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 463.71 *17*	2.8×10^{-7} *3*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
463.73 *7*	1.11 *13*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
• 463.8 *4*	0.009 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
463.8 *1*		^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
463.8 *5*	4.6 *13*	^{181}Lu(3.5 m)	652.5(22.0), 205.94(16.1), 574.9(15.4)
• 463.9	0.00429 *25*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
463.91 *30*	0.25	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
464.0 *5*	0.28 *17*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
464.0 *5*		^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
464.01 *10*	0.12 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
464.1 *4*	0.135 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
464.1	0.31	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
464.1 *5*	0.029 *15*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
464.1 *1*	†1.6 *3*	^{225}Fr(4.0 m)	182.3(†100), 31.50(†91), 225.1(†55)
• 464.11 *7*	0.38 *8*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 464.11 *7*	0.08 *8*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 464.11 *7*	0.462 *8*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
464.2 *2*	0.81 *24*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
464.2 *1*	0.031 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
464.205 *5*	0.009 *4*	^{200}Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
• 464.205 *5*	0.026 *17*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
464.29 *7*	0.77 *22*	^{166}Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
464.3 *4*	0.53 *13*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
464.3 *2*	†3.3 *3*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
464.31 *14*	0.169 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 464.36 *8*	0.085 *14*	^{241}Cm(32.8 d)	471.805(71), 430.634(4.06), 132.413(3.86)
464.41 *4*	0.065 *18*	^{201}Au(26 m)	542.6(1.2), 517.0(0.83), 613.2(0.77)
464.42 *20*	†0.48 *4*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
464.5 *4*	0.8 *3*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
464.5 *3*	0.0057 *15*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
464.5 *7*	2.3 *8*	^{194}Tl(32.8 m)	636.5(99), 428.0(99), 748.9(76)
464.5	†25	^{205}Rn(2.8 m)	264.9(†100), 620.2(†25), 675.0(†20)
• 464.55 *4*	1.73 *8*	^{132}Cs(6.479 d)	567.14(0.234), 1031.70(0.125)
464.55 *4*	76 *5*	^{132}La(4.8 h)	567.14(15.7), 1909.91(9.0), 663.07(9.0)
464.55 *4*	22	^{132}La(24.3 m)	663.07(11.6), 285.6(7), 515.78(7)
464.64 *5*	4.6 *3*	^{134}Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
464.7 *4*	†0.6 *1*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
• 464.72 *9*	3.6×10^{-6} *21*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
464.734 *16*	3.75 *20*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
464.77 *10*	0.70 *5*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
464.79 *5*	24.2 *10*	^{79}Ga(2.847 s)	516.41(21.5), 1187.28(12.8), 2140.20(7.0)
• 464.797 *17*	1.212 *22*	^{166}Ho(1.20×10^{3} y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
464.82 *2*	0.20 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
464.85 *2*	5.65 *8*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
464.9 *2*	0.074 *11*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
464.9	0.10	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
464.95 *8*	0.356 *16*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
465.0 *3*	0.31 *8*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
465.0 *3*	†1.9 *5*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
465.0	7	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
465.0 *1*	2.7 *5*	^{142}Tb(597 ms)	515.0(25), 853.1(2.42), 1399.2(2.39)
465.0 *1*	0.50 *25*	^{142}Tb(597 ms)	515.0(25), 465.0(2.7), 853.1(2.42)
465 *1*	†3.1	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
465.0 *2*	†25 *5*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
465.02 *5*	5.87 *9*	^{59}Cu(81.5 s)	1301.46(14.78), 877.97(11.40), 339.411(7.97)
465.05 *20*	0.93 *17*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
465.1 *3*	0.17 *3*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
465.1 *6*	0.048 *7*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
465.11 *10*	0.249 *21*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
465.13 *24*	0.095 *3*	^{45}K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
465.130 *18*	96.9 *19*	^{209}Tl(2.20 m)	1567.09(99.8), 117.211(84.3), 920.13(0.61)
465.15 *16*	0.070 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
465.2 *2*	0.092 *21*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
465.2 *4*	0.59 *13*	^{160}Yb(4.8 m)	173.74(42.0), 215.78(20.2), 140.35(9.3)
• 465.2 *1*	0.0040 *10*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
• 465.228 *1*	0.0935 *16*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
465.28 *19*	0.070 *12*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
465.34 *5*	3.1 *10*	^{165}Tb(2.11 m)	1178.53(13.2), 538.51(7.2), 1292.05(7.0)
465.4 *5*	0.24 *4*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
465.4 *3*	1.1 *3*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
465.4 *2*	5.8 *3*	^{120}In(47.3 s)	1171.3(100), 1023.1(97.4), 197.3(80.6)
465.4	†0.39 *12*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
465.5 *2*	3.7 *3*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
465.5 *2*	0.056 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
465.50 *10*	0.36 *4*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
• 465.50 *15*	0.0108 *9*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
465.53 *11*	0.0105 *15*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
465.53 *8*	1.10 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
465.6 *1*	14.3 *12*	^{108}Tc(5.17 s)	242.25(82), 707.81(11.4), 1583.5(9.8)
465.6 *5*	0.025 *12*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
465.6 *5*	†0.17 *1*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
465.6	†2	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
465.61 *5*	0.0254 *20*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
465.63 *10*	0.122 *14*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
465.65 *3*	2.50 *13*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
465.65 *25*	0.36 *13*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
• 465.657 *6*	0.0001897 *21*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
465.70 *20*	†100	^{106}Mo(8.4 s)	54.00(†54), 618.60(†25), 595.40(†17.9)
465.7 *1*	0.25 *6*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
465.7 *4*	0.31 *4*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
465.7 *5*	>0.00023	^{243}Pu(4.956 h)	84.0(23), 41.8(0.76), 381.7(0.56)
465.80 *5*	1.21 *7*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
465.8 *3*	0.10 *4*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
465.8	†3	^{107}Mo(3.5 s)	400.3(†100), 65.7(†>92), 384.4(†57.6)
465.8 *3*	0.15 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
465.8 *5*	†0.8 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
465.8 *3*	0.18	^{154}Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
465.8 *2*	0.128 *13*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
465.8 *5*	†3.6 *6*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
465.806 *3*	0.91 *4*	^{199}Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
465.81	0.08	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 465.8416 *10*	2.35 *12*	^{177}Lu(160.4 d)	208.3664(57.7), 228.4838(37.0), 378.5029(29.7)
465.86 *12*	0.0212 *24*	^{81}Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
465.87 *3*	1.394 *25*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
465.88 *18*	†1.3 *3*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
466.0 *3*	0.24 *9*	^{76}Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
466.0 *10*	1.65 *5*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
466.0 *3*	0.40 *10*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
466 *1*		^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
466.0 *1*	†352 *48*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
466.0 *3*	0.48 *3*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
466.1 *3*	†>0.32	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
466.1 *11*	1.8 *9*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
466.13 *10*	0.80 *6*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
466.15 *26*	0.006	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
466.15 *10*	1.39 *8*	^{121}Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
466.16 *7*	1.1	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
466.22 *15*	1.30 *6*	^{186}Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
466.23 *26*	1.49 *16*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
466.26 *8*		^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
466.3	3.3	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
466.35 *4*	†18 *1*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
466.4 *3*	5.0 *5*	^{171}Re(15.2 s)	568.4(16.1), 102.0(9.7), 1066.0(8.1)
466.4 *5*	0.40 *18*	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
466.40 *10*	0.030 *3*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
466.44 *13*	0.098 *7*	^{207}Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
466.46 *6*	0.57 *4*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
466.48 *3*	1.27 *4*	^{58}Mn(65.3 s)	810.764(<0.026), 1323.09(6.44), 459.160(21.4)
• 466.5 *10*	0.004 *4*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
466.5 *23*	†2	^{87}Nb(2.6 m)	200.95(†100), 470.63(†73), 1066.8(†37)
466.5 *5*	†0.42 *21*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
• 466.5 *10*	†0.0031 *15*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 466.562 *8*	1.93×10^{-5} *21*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
466.6 *3*	27 *5*	^{116}Rh(0.9 s)	340.5(90), 639.4(52), 538.4(40)
466.62 *15*	0.070 *17*	^{89}Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
466.69 *5*	3.02 *13*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
466.70 *12*	0.0232 *25*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
466.7 *2*	0.09 *4*	^{183}Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
466.7 *1*	1.07 *6*	^{240}Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
466.73 *7*	0.052 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
466.74 *5*	1.63 *10*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
466.750 *12*	1.00 *5*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
466.76 *4*	1.06 *4*	^{80}Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
466.8 *2*	0.018 *4*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
466.8 *3*	0.073 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
466.8 *1*	0.9 *3*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
466.8 *1*	0.44 *7*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
466.8 *2*	>0.06	^{146}La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
466.8 *4*	†0.33 *10*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
466.8	†<1.2	^{193}Pb(5.8 m)	365.2(†100), 392.2(†20.7), 716.4(†6.7)
466.88 *18*	0.076 *12*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
466.9 *4*	0.013 *8*	^{82}Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
466.9		^{130}Pr(40.0 s)	951.9, 499.0, 1405
• 466.93 *21*	0.047 *12*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
466.95 *6*	0.019 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
467.0 *9*	0.007 *7*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
467.0 *4*	0.7 *3*	^{122}Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
467.0 *3*	0.55 *15*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
• 467.0 *3*	0.011 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
467.0 *5*	0.093 *20*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
467.02 *7*	0.39 *6*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
• 467.03 *4*	0.024 *5*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
467.03 *4*	0.14	^{110}In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
467.03 *3*	0.0026 *3*	^{145}Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
467.04 *8*	0.75 *10*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
467.1 *2*	†1	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
467.1 *11*	0.079 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
467.1 *2*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
467.12 *1*	7.1 *5*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
467.2 *2*	0.7 *2*	^{104}Mo(60 s)	68.8(55), 69.7(17.8), 36.3(14)
467.2 *3*	0.124 *12*	^{112}Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
467.2 *4*	0.53 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
• 467.246 *30*	0.310 *19*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
467.3 *2*	3.52 *18*	^{60}Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
467.3 *3*	>9.0×10^{-5}	^{95}Tc(20.0 h)	765.794(93.82), 1073.71(3.74), 947.67(1.951)
467.30 *10*	0.58 *13*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
467.3 *3*	0.70 *21*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
• 467.35 *15*	0.0220 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 467.36 *5*	0.282 *16*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
467.389 *6*	0.12 *3*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
467.4 *1*		^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
467.4 *7*	0.048 *20*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
467.47 *3*	†100	^{192}Re(16 s)	750.96(†25), 489.039, 283.2668
467.5 *3*	2.3 *6*	^{114}Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
• 467.5	>0.0020	^{140}Ba(12.752 d)	537.261(24.39), 29.9640(14.1), 162.660(6.21)
467.5	5.70 *18*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
467.5 *3*		^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
467.5 *3*	0.72 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
467.5 *3*	0.018	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
467.506 *10*	0.88 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
467.57 *12*	0.65 *4*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
467.6	0.24	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
467.6 *3*	†3.8 *9*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
467.6 *4*	†1.8 *4*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
467.7 *2*	2.46 *21*	^{117}Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
467.7 *4*	0.52 *9*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
• 467.7 *5*	0.064 *9*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
467.70 *20*	0.138 *12*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
467.7 *5*	0.38 *11*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
467.7 *4*	0.05 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
467.72 *10*	20	^{81}As(33.3 s)	491.20(8.5), 521.10(1.40), 1406.14(0.998)
467.76 *8*	†4.92 *20*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
467.8 *1*	0.40 *5*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
467.8 *2*	0.72 *18*	^{198}Pb(2.40 h)	290.3(36), 365.4(19), 173.4(18)
467.81 *4*	2.88 *24*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
467.81 *6*		^{168}Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
467.81 *6*	1.1 *3*	^{168}Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
• 467.84 *5*	0.0609 *18*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
467.9	2.8	^{134}Nd(8.5 m)	163.2(58), 288.9(13), 216.8(12)
467.9 *3*	0.24 *4*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
467.9 *2*	0.240 *20*	^{162}Ho(67.0 m)	185.005(28.6), 1220.0(22.5), 282.864(11.3)
467.94 *18*	0.24 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
467.98 *6*	2.6 *7*	^{81}Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
467.98 *6*	2.5 *8*	^{81}Ge(7.6 s)	93.10(26), 335.98(12.8), 197.30(12.3)
468.0 *3*	18	^{87}Se(5.85 s)	242.5(37), 334.0(35), 573.2(19)
468.0 *3*	0.98 *10*	^{127}In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
468.0 *1*	†319 *48*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
468.0 *1*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
468.0 *1*	0.216 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
468.02 *15*	0.84 *6*	^{146}Ce(13.52 m)	316.74(56), 218.23(20.8), 264.56(9.0)
• 468.07152 *24*	47.83 *17*	^{192}Ir(73.831 d)	316.50791(82.81), 308.45692(30.00), 295.95827(28.67)
468.07152 *24*	4.75 *3*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
468.10 *15*	0.28 *5*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
468.1 *5*	†2.30×10^{3} *16*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 468.12 *15*	†2.88×10^{4} *21*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^{9}), 33.195(†6000×10^{8})
468.130 *4*	1.00 *4*	^{199}Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
• 468.16 *9*	0.41 *4*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
468.17 *7*	†20.3 *12*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
468.17 *7*	†3.4 *2*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
468.2 *2*	0.94 *13*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
468.2 *1*	5.0 *3*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
468.27 *2*	3.1 *3*	^{130}Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
468.27 *2*	18 *1*	^{130}Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
468.3 *3*	†2.1 *4*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
468.33 *6*	0.208 *16*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
468.4 *4*	0.119 *11*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
468.4 *5*	0.020 *6*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
468.4 *3*	†>0.32	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
468.4 *1*	0.054 *16*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
468.4 *2*	†4.6	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
468.5 *5*	0.17	^{116}Sb(15.8 m)	1293.54(85), 931.800(24.7), 2225.33(14.2)
468.5		^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
• 468.500 *12*	0.421 *9*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
468.5 *3*	0.8 *3*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
468.5		^{207}Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
468.5 *5*	0.24	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
468.59 *6*	0.88 *7*	^{102}Tc(5.28 s)	475.070(7), 865.5(0.87), 628.05(0.78)
• 468.59 *6*	†2.99 *21*	^{102}Rh(207 d)	475.070(†47), 628.05(†4.6), 1103.16(†2.99)
468.6 *10*	0.127 *15*	^{67}Ge(18.9 m)	167.01(84), 1472.48(4.9), 910.92(3.1)
• 468.6 *1*	0.029 *5*	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
468.6 *5*	0.22	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
468.7 *4*	0.7 *4*	^{29}S(187 ms)	1383.51(19), 1953.83(17.02), 2422.5(15.5)
468.7 *4*	0.47 *4*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
468.7 *2*	0.50 *3*	^{235}Th(7.1 m)	417.0(2), 727.2(0.87), 696.1(0.64)
468.71 *6*	0.260 *15*	^{200}Pt(12.5 h)	76.21(13), 135.90(3.24), 243.71(2.49)
468.73 *5*	0.52 *4*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
468.77 *24*	0.31 *4*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
468.8 *2*	0.223 *9*	^{75}Ge(82.78 m)	264.6584(11), 198.6031(1.19), 419.1(0.185)
• 468.8 *2*	0.00036 *6*	^{75}Se(119.779 d)	264.6584(58.50), 136.0008(58.3), 279.5441(24.79)
468.8 *3*	0.097 *16*	^{78}As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
468.8 *2*		^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
• 468.8	9.0×10^{-5}	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
468.9 *4*	5.0 *7*	^{35}Si(0.78 s)	4100.7(36.5), 3859.5(32.7), 2386.3(31.6)
468.9 *4*	0.10 *5*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
468.923 *18*	0.53 *6*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
• 468.925 *11*	0.061 *17*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
• 468.98 *5*	0.259 *11*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
468.99 *19*	1.19 *7*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
468.99 *15*	0.117 *11*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
469.0 *1*	1.22 *12*	^{96}Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
469.0 *1*		^{97}Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
469.0 *3*	1.06 *4*	^{150}Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
469.1 *3*	†21 *4*	^{137}Te(2.49 s)	243.3(†100), 554.0(†34), 358.6(†18.8)
469.140 *10*	55	^{99}Zr(2.1 s)	546.13(48.6), 593.990(27.4), 461.70(11.0)
469.18 *7*	0.060 *3*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
469.24 *25*	0.297 *25*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
469.3 *1*	†31 *3*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
469.3 *2*	†75 *6*	^{231}Ra(103 s)	409.92(†100), 204.98(†93), 456.2(†59)
469.33 *3*	0.172 *5*	^{96}Y(5.34 s)	1750.42(2.350), 2225.93(0.322), 475.33(0.188)
469.33 *8*	0.0022 *5*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
469.37 *10*	17.5 *5*	^{105}Ru(4.44 h)	724.21(47), 676.36(15.7), 316.44(11.1)
469.4 *10*	†100	^{77}Ga(13.2 s)	458.6(†48), 2187.3, 1242.3
469.40 *2*	>0.12	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
469.4 *3*	†0.4 *3*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
469.4 *2*	†2.3 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
469.41 *5*	0.0213 *15*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
• 469.5 *3*	0.0044 *11*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
469.6 *4*	6.7 *7*	^{118}Pd(1.9 s)	125.4(34), 125.4(34), 224.2(20.1)
• 469.63 *7*	0.0027 *5*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
• 469.66 *10*	0.026 *9*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
469.69 *12*	0.139 *23*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
469.7 *1*	0.015 *6*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
469.7 *1*	0.56 *4*	^{208}Fr(59.1 s)	635.8(10), 778.5(6.8), 325.3(5.2)
469.7 *1*	†25.9 *9*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
469.71 *8*	0.0101 *12*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
469.72 *4*	†100	^{197}Ir(5.8 m)	430.56(†61), 815.92(†45), 378.32(†38)
469.8 *2*	†15.2 *11*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
469.8 *3*	0.103 *24*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
• 469.8 *4*	0.0011	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
• 469.8 *4*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
• 469.85 *5*	1.48 *6*	^{125}Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
469.85 *4*	0.445 *19*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
469.90 *14*	0.084 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
469.9	0.009 *5*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
469.9 *3*	†0.45 *18*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
470 *1*	0.0081 *5*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
470.0 *23*	†5	^{87}Nb(2.6 m)	200.95(†100), 470.63(†73), 1066.8(†37)
470.0 *5*	0.065 *22*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
470.1 *4*	0.184 *24*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
470.1 *1*	†98 *4*	^{191}Tl(5.22 m)	452.6(†100), 391.6(†96), 216.0(†96)
470.19 *10*	1.3 *5*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
470.2	0.34	^{144}Tb(4.25 s)	743.0(12), 1001.6(7), 959.36(4.7)
470.2 *3*	0.7	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
470.24 *19*	0.44 *14*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
470.25 *17*	†29 *6*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
470.25 *20*	0.013 *3*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
470.32 *3*	2.00 *10*	^{182}Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
470.34 *8*	0.238 *16*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
470.389 *26*	0.198 *20*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
470.4 *5*	0.55 *22*	^{166}Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
470.4 *5*	†0.06 *1*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
• 470.472 *13*	1.41 *3*	^{121}Te(16.78 d)	573.139(80.3), 507.591(17.7), 65.548(0.259)
470.5 *3*	12.7 *4*	^{69}Ni(11.4 s)	1871.1(40.9), 679.7(39.7), 1213.0(39.3)
470.5	0.010 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 470.5 *2*	0.018 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
470.5 *1*	†17.7 *9*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
470.5 *2*	0.062 *9*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
• 470.557 *17*	0.108 *12*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 470.557 *17*	0.44 *6*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 470.60 *16*	0.0016 *8*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
470.6 *3*	0.32 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
470.6 *2*	†4.1 *15*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
470.6 *2*	†12.8 *14*	^{155}Er(5.3 m)	110.12(†100), 241.5(†65), 234.0(†40.0)
470.6 *5*	0.168 *20*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
470.6 *8*	0.010 *5*	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
470.62 *6*	7.4 *4*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
470.62 *9*	0.023 *3*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
470.63 *12*	†73 *3*	^{87}Nb(2.6 m)	200.95(†100), 1066.8(†37), 1884.5(†35)
470.7 *3*	3.64 *4*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
470.7 *5*	0.48 *19*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
470.70 *16*	0.34 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
470.77 *13*	0.038 *7*	^{199}Tl(7.42 h)	455.46(12.4), 208.20597(12.3), 247.26(9.3)
470.793 *7*	0.40 *4*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
470.8 *1*	0.33 *8*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
470.8 *2*	†8.6 *9*	^{130}Cs(3.46 m)	536.09(†100), 206.6(†1.7), 510.35
470.8 *4*	0.13 *5*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
470.83 *4*	0.61 *3*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
470.9 *4*	†100 *34*	^{232}Ra(250 s)	97.7(†80), 478.5(†69), 105.2(†66)
471.0 *3*	0.43 *10*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
471.0 *3*	†3.8 *8*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
471.00 *10*	1.65 *9*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
471.1 *5*	0.38 *5*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
471.10 *37*	0.037 *9*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
471.1 *5*	†0.22 *12*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
• 471.1 *2*	1.4×10^{-5} *2*	^{233}U(1.592×10^{5} y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
• 471.2 *4*	0.019 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
471.21 *30*	0.12 *1*	^{107}Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
471.3 *6*	23 *4*	^{66}Co(0.23 s)	1424.8(100), 1246.0(98), 1020
• 471.3 *2*	0.014 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
• 471.3 *2*	0.018 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
471.3 *1*	†9.0 *9*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
471.3 *3*	2.5 *7*	^{179}Yb(8.0 m)	592.1(75), 612.3(35.4), 381.4(9.6)
471.3 *2*	†2 *1*	^{191}Pb(2.18 m)	387.1(†100), 712.2(†46), 613.5(†40)
471.3 *5*	0.24	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
471.330 *17*	4.05 *9*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
471.352 *16*	1.34 *4*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
471.36 *20*	1.02	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
471.36 *9*	1.60 *16*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
471.38 *15*	0.69 *5*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
471.39 *9*	0.10 *6*	^{100}Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
471.4 *5*	0.39 *12*	^{96}Rh(1.51 m)	832.57(39), 1098.51(8.9), 1692.2(7.0)
471.4 *5*	0.045 *4*	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
471.4 *2*	†1.7 *9*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
471.4 *7*	0.20 *6*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
471.5 *2*	2.9 *3*	^{196}Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
471.5 *2*	†0.83 *9*	^{196}Bi(240 s)	1049.21(†21.1), 371.93(†20.8), 689.00(†19.2)
• 471.59	0.049	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
471.6 *8*	†11.2 *8*	^{94}Kr(0.20 s)	629.2(†100), 764.5(†71), 219.466(†67.4)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 471.600 *12*	0.0562 *19*	^{147}Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
471.63 *19*	0.31 *16*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
471.7 *5*	0.16 *4*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
471.7 *2*	0.31 *5*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
471.7 *3*	†4.6	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
471.7 *4*	0.13 *5*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
471.76 *15*	0.034 *3*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
471.80 *3*	0.727 *14*	^{88}Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
471.8 *1*	†7.0 *9*	^{123}La(17 s)	92.5(†100), 937.3(†43), 153.6(†43)
471.8 *1*		^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
• 471.805 *20*	71 *3*	^{241}Cm(32.8 d)	430.634(4.06), 132.413(3.86), 165.049(2.97)
• 471.805 *20*	0.026 *5*	^{245}Bk(4.94 d)	205.879(0.040), 164.8(0.0084), 430.634(0.0015)
471.87 *4*	0.83 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
471.871 *23*	0.1055 *25*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
471.9 *1*	12.2 *6*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 519.4(4.9)
471.9 *3*	†2.7 *11*	^{155}Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
471.9 *3*	†0.8 *6*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
471.9 *3*	†1.3 *6*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
471.9 *3*	†2.7	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
471.90 *13*	0.39 *6*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
471.956 *25*	1.98 *10*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
• 471.979 *10*	0.353 *8*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
472.0	0.21 *4*	^{43}Ti(509 ms)	2288.2(4.40), 845.2(2.77), 2458.5(0.91)
472.00 *11*	3.24 *22*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
472.0 *2*	0.71 *7*	^{130}Sn(3.72 m)	192.5(70), 779.8(59), 70.0(35.5)
472 *1*	0.11	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
472.0 *7*	†0.31 *15*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
472.04 *17*	†2.5 *4*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
472.05 *6*	0.36 *3*	^{132}La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
• 472.075 *6*	0.0079 *21*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
472.1 *3*	0.06	^{113}Pd(93 s)	95.74(3.3), 643.7(3.0), 739.63(2.4)
472.11 *15*	0.00143 *25*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
472.2 *3*	0.16 *3*	^{183}Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
472.2 *3*	†0.48 *6*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
472.202		^{24}Ne(3.38 m)	874.41
472.21 *12*	0.199 *22*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
472.24 *28*	1.42 *15*	^{90}Mo(5.67 h)	257.34(78), 122.370(64.2), 203.13(6.4)
472.24 *88*	0.41 *8*	^{174}W(31 m)	35.42(14.1), 428.83(12.7), 328.68(9.5)
472.3 *3*	0.7 *3*	^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
472.3 *1*	0.025 *8*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
472.3 *1*	0.361 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
472.33 *5*	0.0363 *17*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 472.390 *6*	4.16 *19*	^{232}Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
472.4 *3*	0.045 *9*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
472.4 *1*	0.23 *4*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
• 472.50 *15*	0.0112 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
472.5 *1*	0.0040 *3*	^{222}Ra(38.0 s)	324.22(2.77), 328.9(0.0043), 840.2(0.0025)
472.53 *15*	0.0391 *18*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
472.58 *18*	†10.6 *21*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
472.6 *2*	†1.06×10^4 *4*	^{158}Er(2.29 h)	71.91(†23300), 386.84(†111000), 248.58(†42000)
472.6 *4*	0.004 *3*	^{183}Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
472.65 *6*	0.77 *5*	^{157}Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
472.70 *20*	0.15 *4*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
472.70 *10*	4.0 *5*	^{115}Ag(20.0 m)	229.08(18), 212.80(4.4), 649.10(3.0)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 472.700 *9*	0.145 *4*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
472.71 *9*	29.0 *21*	^{59}Mn(4.6 s)	726.7(42), 570.81(24.8), 591.20(9.4)
• 472.71 *4*	0.0312 *17*	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
472.8 *2*	37.4 *20*	^{118}Cs(14 s)	337.4(100), 586.6(15.4), 590.6(11.0)
472.8 *1*	0.024 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
472.80 *7*	0.127 *5*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
• 472.812 *5*	0.050 *5*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
472.812 *5*	1.86 *8*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
472.9 *1*	0.63 *8*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
472.9 *2*	0.5 *3*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
472.90 *15*	0.32 *5*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
473		^{115}Ag(18.0 s)	229.08(†100), 131.52(†77), 388.9(†52)
• 473.0 *4*	25.7 *7*	^{127}Sb(3.85 d)	685.7(37), 783.7(15.0), 252.4(8.5)
473.0 *2*	†5.4 *9*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
473.0 *2*	†3	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
473.0 *7*	0.121 *22*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
473.04 *13*	0.81 *7*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
473.04 *25*	0.156 *22*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
473.09 *8*	0.89 *7*	^{205}Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
473.1 *3*	0.34 *5*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
473.1 *8*	0.55 *13*	^{113}Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
473.1 *4*	0.17 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
473.2 *4*	0.9 *4*	^{106}Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
473.2 *5*	0.18 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
473.2 *4*	†7.2 *15*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
473.21 *7*	0.28	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
473.33 *15*	0.18 *3*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
473.330 *64*	0.13 *3*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
473.35 *12*	0.706 *21*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
473.39 *11*	0.119 *24*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
473.4 *1*	0.416 *14*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
473.4 *4*	0.08 *4*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
473.440 *22*	2.42 *12*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
473.5 *6*	0.07 *4*	^{97}Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
473.5 *1*	†30 *3*	^{120}Cs(64 s)	322.4(†100), 553.4(†19.1), 601.2(†10.9)
• 473.5 *6*	0.009 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
473.5 *3*	0.054 *11*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
473.5 *2*	1.30 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
473.5 *3*	†>0.27	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
473.5 *1*	4.3 *3*	^{237}Am(73.0 m)	280.23(47.3), 438.4(8.3), 908.8(2.60)
473.6 *4*	10.5 *13*	^{73}Kr(27.0 s)	177.8(65.8), 62.5(19.1), 454.8(15)
473.6 *4*	0.17 *4*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
473.6 *2*	†8.9 *9*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
473.6 *2*	0.046 *11*	^{212}Bi(60.55 m)	39.858(1.091), 452.83(0.31), 288.07(0.31)
473.7 *2*	5.2 *3*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
473.7 *4*	0.40 *7*	^{119}Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
473.7	1.3	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
473.7 *2*	3.7 *3*	^{196}Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
473.7 *2*	†1.06 *9*	^{196}Bi(240 s)	1049.21(†21.1), 371.93(†20.8), 689.00(†19.2)
473.7 *1*	10.2 *11*	^{228}Fr(39 s)	474.0(7.6), 410.40(6.3), 140.86(5.4)
473.76 *2*	0.20 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
473.76 *5*	0.201 *19*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
473.8 *6*	0.028 *12*	^{93}Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
473.8 *2*	0.60 *9*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 473.8 *8*	0.007 *3*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
473.80 *17*	0.161 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
473.9 *2*	0.66 *6*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
473.9 *3*	0.27 *5*	^{129}In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
473.9 *1*	†0.49 *7*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
473.9 *5*	0.0035	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
473.93 *9*	0.042 *17*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
473.94 *5*	19.7 *20*	^{77}Zn(2.08 s)	189.49(28.1), 1832.0(12.4), 160.93(8.4)
474.0 *1*	7.6 *14*	^{228}Fr(39 s)	473.7(10.2), 410.40(6.3), 140.86(5.4)
474.01 *7*	1.0 *2*	^{140}Pm(5.95 m)	1028.19(100), 773.74(100), 419.57(92)
• 474.060 *30*	0.93 *5*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
474.07 *7*	3.76 *20*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
474.1 *5*	2.6 *3*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
474.1 *8*	0.112 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 474.11 *15*	>0.00038	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
474.2 *2*	0.103 *15*	^{123}Xe(2.08 h)	148.9(49), 178.1(14.9), 330.2(8.6)
• 474.2 *3*	0.0023 *6*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
• 474.2 *4*	0.005 *3*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
474.2 *2*	†100 *9*	^{151}Yb(1.6 s)	520.1(†85), 108.4(†52)
474.2 *2*	†4.5 *15*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
474.2 *2*	0.036 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
474.3 *2*	†24 *3*	^{157}Yb(38.6 s)	230.92(†100), 340.7(†90), 241.7(†74)
• 474.300 *4*	5.0×10^{-8} *3*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
474.35 *20*	1.3 *3*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
474.38 *10*	0.10 *4*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
474.4 *5*	0.75 *10*	^{142}Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
474.4 *2*	0.18 *6*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
474.4 *1*	†1.1 *1*	^{160}Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
474.42 *16*	0.22 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
474.43 *15*	2.38 *24*	^{45}Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
474.49 *8*	0.0034	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 474.498 *25*	0.145 *7*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
474.50 *15*	0.21 *5*	^{128}In(0.84 s)	1168.80(40), 935.20(6.5), 1089.53(6.0)
474.5 *3*		^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
474.5 *2*	86 *7*	^{150}Tm(2.2 s)	1578.9(91), 207.6(82), 594.1(13.6)
474.57 *2*	2.88 *10*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
474.57 *6*	2.80 *17*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
474.6 *2*	2.1 *3*	^{71}Br(21.4 s)	260.5(8.0), 233.7(6.5), 171.6(6.2)
474.6 *4*	†1.24 *24*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
474.625 *11*	2.52 *12*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
474.63 *10*	0.91 *6*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
474.64 *8*	0.09	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
474.68 *35*		^{199}Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
474.7 *4*	0.11 *6*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
474.719 *3*	1.15 *4*	^{199}Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
474.74 *6*	2.75 *16*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
474.75 *10*	0.023 *4*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
474.8 *4*	†12 *4*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
474.8 *4*	0.13 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
474.85 *1*	0.88 *3*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
• 474.89 *10*	0.025 *3*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
474.90 *15*	1.15 *19*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
474.9 *4*	†1.3 *7*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
• 474.9 *5*	0.00035 *4*	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 474.973 *9*	0.000193 *4*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
475.0 *1*	16.85 *23*	^{61}Zn(89.1 s)	1660.5(7.80), 970.0(2.57), 690.2(1.87)
475.0 *2*	0.25 *7*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
475.0 *4*		^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)
475.0 *4*	0.090 *19*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
475 *2*	0.017 *8*	^{116}In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
475.0 *2*	0.0007 *5*	^{141}La(3.92 h)	1354.52(1.64), 1693.3(0.074), 2267.0(0.0413)
475.0 *2*		^{172}Ir(4.4 s)	378.4, 227.8
475.0 *7*	2.04 *20*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
475.0 *3*	0.011 *3*	^{240}Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
475.016 *23*	0.49 *5*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
475.070 *27*	†115	^{102}Tc(4.35 m)	628.05(†35.3), 631.28(†21.3), 1615.3(†20.8)
475.070 *27*	7	^{102}Tc(5.28 s)	468.59(0.88), 865.5(0.87), 628.05(0.78)
• 475.070 *27*	95 *4*	^{102}Rh(2.9 y)	631.28(55.9), 697.49(43.9), 766.84(33.9)
• 475.070 *27*	†47 *3*	^{102}Rh(207 d)	628.05(†4.6), 1103.16(†2.99), 468.59(†2.99)
475.1 *1*	5.1 *4*	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 254.76(4.72)
475.1 *6*	0.059 *25*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
475.17 *9*	0.299 *11*	^{142}Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
475.2 *1*	1.14 *23*	^{75}Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
475.2 *1*	26.7 *14*	^{97}Pd(3.10 m)	265.26(56), 792.70(13.8), 1759.60(6.8)
475.2 *2*	†33 *5*	^{153}Nd(28.9 s)	418.3(†100), 105.4(†36), 83.0(†27)
475.2 *1*	0.27 *4*	^{223}Ac(2.10 m)	98.58(0.891), 191.3(0.58), 83.55(0.57)
475.28 *4*	1.02 *4*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
475.3 *2*	2.5 *3*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
475.33 *1*	0.188 *7*	^{96}Y(5.34 s)	1750.42(2.350), 2225.93(0.322), 469.33(0.172)
475.33 *1*	3.1	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
• 475.35 *5*	1.465 *40*	^{134}Cs(2.062 y)	604.699(97.56), 795.845(85.44), 569.315(15.43)
475.35 *5*	0.0053 *16*	^{134}La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
475.36 *25*	0.0104 *19*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
475.38 *15*	0.15 *3*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
475.4	0.8	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
475.4 *2*	0.51 *12*	^{108}Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
475.4 *5*	2.0 *4*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
475.4 *1*	11.6 *18*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
475.4 *1*	8.6 *8*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
475.40 *7*	0.0063 *3*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
475.412 *27*	2.9 *3*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
475.43 *3*	0.992 *22*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
475.44 *19*	0.0072 *12*	^{249}Cm(64.15 m)	634.31(1.5), 560.45(0.84), 368.76(0.35)
• 475.445 *2*	1.040 *21*	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
475.49 *6*	3.18 *8*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
475.5 *3*	0.33 *8*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
475.5 *2*	†0.46 *5*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
475.5 *1*	1.31 *11*	^{139}Nd(29.7 m)	405.12(7), 1074.2(2.5), 669.0(1.52)
475.5 *4*	0.62 *9*	^{139}Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
475.5	5.0	^{144}Dy(9.1 s)	196.5(11), 298.6(10), 321.5(2.2)
475.5 *3*	†5.6 *13*	^{155}Er(5.3 m)	110.12(†100), 241.5(†65), 234.0(†40.0)
475.5 *4*	†4.2	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
475.54 *14*	1.0 *3*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
475.59 *5*	1.37 *10*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
475.6 *3*	†1.4 *3*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
475.6 *4*		^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
475.60 *10*	0.98 *11*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
475.6 *2*	0.69 *18*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
475.606 *24*	0.0043 *3*	^{145}Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
475.63 *11*	0.91 *8*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
• 475.687 *2*	0.0182 *12*	^{161}Tb(6.88 d)	25.65150(23.2), 48.91562(17.0), 74.56711(10.2)
475.7 *3*	†14 *4*	^{17}C(193 ms)	1373.8(†100), 1849.5(†92), 1906.7(†29)
475.7 *2*	0.103 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
475.75 *10*	†2.29×10^3 *15*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
475.8 *9*	0.006 *3*	^{63}Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
475.8	100	^{150}Er(18.5 s)	130.0(2.6), 1014.0(0.9), 1022.1(0.9)
475.8 *3*	0.6 *3*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
475.83 *7*	1.03 *11*	^{118}I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
475.9 *5*	0.45 *8*	^{117}I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
475.9 *4*	>0.023	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
475.92 *15*	†22 *5*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
• 475.94 *3*	0.703 *6*	^{181}Hf(42.39 d)	482.182(80.50), 133.024(43.3), 345.916(15.12)
476.0 *3*	0.29 *4*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
476.0 *3*	0.58 *6*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
476.0 *1*	8.5 *5*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
476.0 *4*		^{158}Ho(21.3 m)	406.14(†100), 838.9(†84.3), 1484.1(†66.2)
476.0 *5*	0.08 *4*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
476.1 *2*	0.055 *14*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
476.10 *11*	0.133 *12*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
476.1 *1*	†18 *2*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
476.2 *2*	0.204 *21*	^{79}As(9.01 m)	95.73(0.85), 364.9(1.06), 432.1(0.850)
476.2 *3*	0.057 *6*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
476.2	†19	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
476.26 *2*	0.34 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
476.3 *3*	0.187 *23*	^{69}Cu(2.85 m)	1007.5(23.4), 834.4(13.1), 531.2(6.0)
• 476.367 *14*	2.1×10^{-6} *7*	^{186}Re(90.64 h)	137.155(8.22), 767.508(0.0255), 630.354(0.0230)
476.367 *14*	0.64 *4*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
476.367 *14*	0.80 *13*	^{186}Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
• 476.37 *4*	0.0363 *22*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
• 476.38 *15*	0.030 *7*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
476.4 *3*	1.31 *15*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
476.42 *9*	0.400 *25*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
• 476.49 *5*	0.023 *3*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
476.5 *5*	1.8	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
• 476.5 *1*	0.034 *5*	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
476.5 *3*	0.018 *7*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
476.5	>0.8	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
476.54 *18*	†11.1 *22*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
476.55 *3*	1.36 *6*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
476.56 *10*	8.00 *14*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
476.6 *5*	0.12 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
476.6 *2*	0.100 *7*	^{143}La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
476.6	0.61 *23*	^{148}Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
476.6 *6*	0.09	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
476.6 *2*	0.10 *1*	^{241}Np(13.9 m)	174.94(3.1), 132.99(0.86), 518.8(0.40)
• 476.67 *20*	0.00010 *2*	^{115}Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
476.70 *4*	0.522 *14*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
476.7 *1*	0.058 *5*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
476.7 *3*	0.85 *11*	^{119}Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
476.7 *2*	1.26 *13*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
476.7 *1*	†1.16×10^3 *11*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
476.8 *1*	0.095 *11*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 476.8 *1*	42.0 *8*	^{144}Pm(363 d)	696.510(99), 618.01(98.6), 778.5(1.51)
• 476.827 *6*	0.32 *4*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
• 476.89 *13*	0.018 *5*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 476.89 *13*	>0.018	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
476.89 *5*	0.0212 *15*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
476.9 *2*	†14 *3*	^{112}Te(2.0 m)	372.70(†100), 296.20(†86), 418.9(†57)
476.90 *18*	0.73 *7*	^{183}Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
476.9 *3*	0.18 *5*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
476.98 *9*	0.46 *9*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
477.0 *1*	>0.040	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
477.0 *10*	0.07 *5*	^{117}Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
477.0	0.44	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
• 477.0 *6*	0.009 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
477.0 *3*	†21 *5*	^{158}Lu(10.4 s)	358.2(†100)
477.0 *3*	0.0097 *14*	^{251}Fm(5.30 h)	425.4(0.95), 480.4(0.392), 358.3(0.315)
477.06 *15*	1.08 *11*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
477.1 *5*	0.88 *25*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
477.1 *3*	2.6 *5*	^{140}Pm(9.2 s)	773.74(5.0), 1204.8(1.9), 1138.7(1.5)
477.1 *1*	55 *3*	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 406.9(19.0)
477.10 *3*	86 *4*	^{206}At(30.0 m)	700.66(98), 395.54(48), 733.73(10.2)
477.12 *20*	0.23 *4*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
477.15 *16*	0.65 *7*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
477.19 *15*	0.135 *18*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
477.2 *2*	20.2 *14*	^{55}Co(17.53 h)	931.3(75), 1408.4(16.88), 1316.4(7.09)
477.2 *1*	0.053 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
• 477.2	0.00012	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
477.21 *11*	†1.10 *13*	^{144}Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
477.22 *4*	39	^{133}Ce(4.9 h)	510.36(20.7), 58.39(19.2), 130.803(17.9)
477.23 *4*	0.301 *7*	^{183}Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
477.24 *20*	0.0053 *13*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
477.3 *2*	0.050 *10*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
477.3 *4*	0.068 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
477.3 *3*	3.41 *20*	^{170}Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
477.337 *14*	9.2 *5*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
477.393 *5*	2.96 *25*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
477.4 *2*	1.2 *5*	^{103}Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
477.4 *2*	3.39 *22*	^{170}Ho(2.76 m)	258.2(37.0), 931.3(36.1), 181.6(23.8)
477.5 *2*	0.94 *13*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
477.5 *1*	†17.0 *18*	^{104}Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
477.5 *3*	†62 *7*	^{106}Sn(115 s)	386.8(†100), 253.30(†57), 1190.0(†33)
• 477.595	10.52 *6*	^{7}Be(53.29 d)	
477.6 *3*	†11.0 *12*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
477.6 *3*	†0.60 *7*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
477.69 *6*	0.144 *11*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
477.7 *4*	0.013 *5*	^{95}Tc(20.0 h)	765.794(93.82), 1073.71(3.74), 947.67(1.951)
• 477.75 *4*	0.095 *9*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
477.76 *7*	0.049 *4*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
477.77 *6*	0.38 *3*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
• 477.791 *23*	0.401 *14*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
477.8 *6*	5.5 *11*	^{110}Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
477.8 *2*	1.4	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
477.8 *3*	0.23 *4*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
477.8 *3*	1.65 *18*	^{186}Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
477.8 *3*	0.42 *18*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 477.8 *3*	1.82 *21*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
477.8 *5*	0.36 *8*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
477.9 *5*	†0.38 *7*	^{120}I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
477.9 *5*	1.2 *3*	^{120}I(53 m)	560.44(100), 601.11(87), 614.62(67)
477.9 *6*	0.6 *3*	^{162}Tm(24.3 s)	811.52(6.5), 798.68(5.2), 227.52(5)
477.93 *6*	0.175 *24*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
477.98 *25*	0.076 *20*	^{126}In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
477.98 *25*	0.37 *10*	^{126}In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
477.98 *7*	0.39	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
477.99 *2*	1.0	^{188}Re(16.98 h)	155.032(14.9), 632.99(1.25), 931.34(0.545)
• 477.99 *2*	15	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
478.0	0.7	^{125}Cd(0.65 s)	436.29(37), 1099.48(22.3), 2147.19(19.1)
478.0 *3*	>1.1	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
478.0 *4*	0.013 *3*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
478.03 *5*	3.00 *18*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
478.03 *2*	3.9 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
478.17 *12*	1.34 *20*	^{148}Ce(56 s)	269.519(17.0), 291.724(16.7), 121.169(13.2)
478.2 *4*	0.17 *4*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
478.2 *2*	>0.6	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
478.2 *4*	0.6	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
478.2 *2*	0.32 *11*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
• 478.27 *4*	0.2263 *18*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
• 478.29 *6*		^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
478.3 *2*	0.40 *8*	^{105}Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
478.3 *3*	0.044 *6*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
• 478.3 *5*	1.8 *3*	^{188}Pt(10.2 d)	187.59(19.4), 195.05(18.6), 381.43(7.5)
478.3 *3*	1.19 *9*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
478.30 *10*	0.078 *11*	^{224}Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
478.3 *1*	†6.6 *6*	^{225}Fr(4.0 m)	182.3(†100), 31.50(†91), 225.1(†55)
478.300 *6*	0.215 *16*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
478.300 *6*	0.038 *19*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 478.300 *6*	1.4×10^{-6} *5*	^{232}U(68.9 y)	57.762(0.200), 129.065(0.0686), 270.243(0.00316)
478.3 *3*	†13.8 *17*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
478.38 *13*	†12.5 *25*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
478.38 *13*	†5 *2*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
478.4 *1*	0.161 *18*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
478.4 *3*	0.33 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
• 478.4 *4*	0.022 *3*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
478.40 *15*	0.12 *3*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
478.4 *4*	0.08	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
478.49 *14*	0.048 *15*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
478.5 *4*	0.12 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
478.5 *2*	†1.51 *21*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
478.5 *2*	†17 *3*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
478.5 *4*	†69 *32*	^{232}Ra(250 s)	470.9(†100), 97.7(†80), 105.2(†66)
• 478.6 *2*	1.4×10^{-5} *2*	^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
478.6 *1*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
478.6 *1*	0.124 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
478.62 *6*	0.94 *17*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
478.7 *9*	0.8 *3*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
• 478.7 *5*	0.0260 *24*	^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
478.7 *4*	†83 *3*	^{171}W(2.38 m)	184.2(†100), 294.5(†89), 52.1(†51)
478.7 *2*	†0.8 *4*	^{194}Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
478.7 *1*	†21.4 *9*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 478.710 *8*	0.228 *4*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
478.8	3.9	^{43}Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
478.8 *2*	0.26 *4*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 478.80 *10*	0.056 *6*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
478.9 *6*	0.019 *11*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
478.9 *4*	0.70 *9*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
479.00 *16*	†3.4 *4*	^{131}Ce(5.0 m)	230.43(†100), 436.85(†7.3), 462.9(†6.9)
479.1 *5*	0.19 *7*	^{57}Cr(21.1 s)	83.16(8.3), 850.2(8.2), 1752.1(5)
479.1 *1*	0.0030	^{104}Rh(42.3 s)	555.796(2.0), 1237.2(0.066), 767.72(0.011)
479.1 *1*	6.0×10^{-5} *4*	^{104}Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
479.1 *1*	1.02 *19*	^{104}Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
479.1 *1*	0.11 *3*	^{104}Ag(33.5 m)	555.796(91), 1238.0(3.87), 2276.7(2.46)
479.1 *7*	29 *6*	^{132}In(0.201 s)	374.3(62), 4040.8(61), 299.2(49)
479.1 *4*	0.26	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
479.1 *3*	0.20 *5*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
479.12 *10*	0.0119 *5*	^{137}Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
479.13 *4*	>0.6	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
479.14 *10*	0.030 *4*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
479.18 *11*	3.8 *4*	^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
479.2		^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
479.20 *16*	†1.6 *4*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
479.20 *11*	†26 *4*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
479.24 *5*	54 *3*	^{128}La(5.0 m)	284.00(87), 643.65(14.7), 600.5(10.5)
479.27 *11*	0.091 *9*	^{72}Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 479.27 *11*	0.0223 *16*	^{72}As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
479.3 *3*	0.012 *7*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
479.357 *10*	15.4 *5*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
479.4 *4*		^{168}Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
479.40 *9*	†1.28 *13*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
479.47 *3*	2.20 *17*	^{132}La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
479.47 *3*	3.1 *9*	^{132}La(24.3 m)	464.55(22), 663.07(11.6), 285.6(7)
479.5 *6*	0.022 *16*	^{65}Ga(15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
479.50 *6*	0.34 *9*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
• 479.50 *15*	0.0300 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
479.5 *3*	†0.85 *8*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
479.531 *17*	21.8 *4*	^{187}W(23.72 h)	685.774(27.3), 72.001(11.14), 134.243(8.85)
479.6 *10*	0.00045	^{62}Cu(9.74 m)	1172.9(0.34), 875.68(0.150), 2301.8(0.0414)
479.6 *2*	0.0279 *10*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
479.6 *2*	0.31 *5*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
479.6 *2*	0.0052 *13*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
479.622 *25*	0.0440 *22*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
479.65 *2*	2.32 *7*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
479.7 *3*	2.3 *3*	^{112}Rh(6.8 s)	348.70(87), 560.5(49), 1098.6(39)
479.70 *35*	0.19 *5*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
• 479.71 *23*	0.017 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
479.72 *7*	0.35 *3*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
• 479.76 *10*	0.0114 *13*	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
479.78 *15*	0.65 *12*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
479.8	0.79 *8*	^{40}Cl(1.35 m)	1460.830(79), 2839.8(30.4), 2621.5(15.4)
479.8 *1*	0.07 *2*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
479.8 *2*	†62.8 *10*	^{168}Re(4.4 s)	199.3(†100), 363.2(†95), 558.2(†10.6)
479.8 *10*	0.02 *1*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
479.84 *6*		^{159}Gd(18.479 h)	363.55(11.4), 58.00(2.15), 348.16(0.234)
479.9 *2*	0.80 *14*	^{76}Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
479.9 *3*	0.079 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
479.9 *4*		^{180}Hg(2.8 s)	300.5(†100), 381.2(†69), 479.9(†23.0)
479.9 *4*	†23.0 *45*	^{180}Hg(2.8 s)	300.5(†100), 381.2(†69), 405.0(†17)
• 479.95 *7*	0.057 *6*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
480.0 *3*	3.6 *4*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
480.0 *3*	0.31 *5*	^{129}In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
480 *1*	0.12 *10*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
480.0 *4*	0.22 *8*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
480.0 *5*	0.15 *3*	^{167}Ho(3.1 h)	346.547(56), 321.336(23.5), 237.873(5.0)
480.0 *2*	†14.0 *14*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
480 *20*	2.0 *10*	^{210}Tl(1.30 m)	799.7(99), 298(79), 1316(21)
480 *1*	0.00135 *18*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 480 *1*	†0.019 *7*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 480.08 *4*	0.159 *19*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
480.1 *4*	†19 *1*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
480.1 *3*	1.49 *16*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
480.1 *2*	0.165 *18*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
480.1	0.5	^{199}Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
480.12 *2*	2.68 *15*	^{161}Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
480.2		^{182}Hg(10.83 s)	129.3(†100), 217.7(†75), 413.5(†53)
• 480.23 *8*	0.048 *4*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
• 480.244 *7*	0.08 *4*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
480.28 *3*	1.37 *10*	^{123}Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
480.3 *1*	0.0038 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
480.3 *1*	5.4 *5*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
480.3 *2*	2.3 *2*	^{200}Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
480.32 *5*	0.041 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 480.38 *10*	0.089 *9*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
• 480.39 *5*	0.030 *10*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
480.4 *4*	0.23 *9*	^{85}Zr(7.86 m)	454.20(45), 416.3(27.0), 1198.4(4.8)
480.4 *6*	†54 *13*	^{134}Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
480.4 *1*	0.126 *25*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
480.4 *7*	0.41 *4*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
480.4 *1*	0.392 *20*	^{251}Fm(5.30 h)	425.4(0.95), 358.3(0.315), 383.2(0.0196)
• 480.407 *13*	0.328 *3*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
480.42 *8*	0.33 *3*	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
• 480.44 *2*	†36.5 *8*	^{56}Ni(5.9 d)	158.38(†98.8), 811.85(†86.0), 749.95(†49.5)
480.44 *20*	0.087 *12*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
• 480.5 *6*	8.0×10^{-6}	^{115}Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
• 480.50 *15*	0.0197 *9*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
480.5 *4*	†8.0 *20*	^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
480.5 *4*	0.05 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
480.51 *2*	1.5	^{135}La(19.5 h)	874.51(0.164), 587.83(0.1108), 220.94(0.0541)
480.6 *5*	0.394 *11*	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
480.60 *17*	1.14 *9*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
• 480.61	0.0049 *3*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
480.65 *15*	0.077 *14*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
480.705 *17*	5.84 *5*	^{96}Nb(23.35 h)	778.224(96.45), 568.80(58.0), 459.88(26.62)
• 480.705 *17*	0.08 *3*	^{96}Tc(4.28 d)	778.224(100), 849.929(98), 812.581(82)
480.705 *17*	0.311 *15*	^{96}Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 719.562(0.296)
480.8 *7*	0.14 *3*	^{89}Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
480.8 *3*	†13 *3*	^{157}Yb(38.6 s)	230.92(†100), 340.7(†90), 241.7(†74)
480.8 *5*	0.32 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
480.8 *4*	†2.5 *10*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
480.8 *2*	0.41 *4*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
480.83 *9*	0.029 *4*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 480.84 *10*	0.122 *13*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 480.89 *8*	0.094 *4*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
480.9 *2*	0.18 *3*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
480.9 *1*	9.5 *10*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
480.9 *3*	†<10	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
480.9 *1*	2	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
480.9 *3*	0.35 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
480.94 *20*	0.024 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
480.94 *20*	0.13	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
481.00 *12*	0.103 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
481.0 *2*	63	^{102}Cd(5.5 m)	1036.6(12.8), 505.1(9.6), 414.8(7.6)
• 481 *1*	0.064 *10*	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
481.0 *4*	0.07	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
481.0 *1*	0.309 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 481.05 *5*	0.033 *3*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
481.1 *2*	0.10	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
481.1 *4*	0.026 *5*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
481.11 *5*	0.386 *23*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
481.17 *10*	2.63 *19*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
481.3 *1*	†9.52 *8*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
481.3	4.7	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
481.3 *3*	4.7	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
481.31 *5*	0.71 *15*	^{183}Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
481.33 *10*	0.0168 *13*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
481.34 *2*	0.218 *20*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
481.39 *9*	1.24 *8*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
481.4 *3*	0.153 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
481.4 *6*	†4.9	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
481.5	0.12	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
481.5 *5*	0.038 *24*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
• 481.520 *10*	4.6×10^{-6} *2*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
481.6		^{117}Rh(0.44 s)	131.8(†100), 97.1(†33), 34.6(†32.7)
481.6 *3*	0.67 *13*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
481.6 *2*	1.9 *4*	^{130}Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
• 481.6 *5*	0.021 *6*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
481.6 *5*	0.61 *12*	^{231}Np(48.8 m)	370.9(10), 348.4(3.63), 263.8(2.84)
481.65 *10*	3.0 *4*	^{148}Tb(2.20 m)	784.430(100), 631.947(95), 882.3(92)
481.7 *3*	13.6 *9*	^{90}Tc(49.2 s)	1054.3(100), 948.1(100), 944.7(36.6)
481.73 *3*	0.0348 *17*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
481.8 *7*	0.06 *2*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
481.9 *6*	0.50 *21*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
481.9 *2*	†2.95 *19*	^{168}Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
481.9 *5*	65 *33*	^{184}Lu(20 s)	367.6(109), 242.4(76), 107.4(27)
481.9 *10*	0.014 *7*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
481.92 *13*	0.061 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
481.92 *12*	0.0103 *13*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
481.96 *10*	1.12 *10*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
481.97 *20*	0.087 *10*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
482.0 *1*	0.11 *11*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
482.0 *1*	0.29 *5*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
482.0 *3*	†12.1 *5*	^{170}Ho(43 s)	812.3(†100.0), 1894.5(†45.2), 78.6(†40)
• 482 *1*	†0.0089 *24*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 482.06 *11*	0.059 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
482.07 *9*	0.067 *11*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
482.1 *4*		^{117}Pd(4.3 s)	247.5(†100), 649.9(†41), 323.9(†37)
482.1 *1*	0.024 *3*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
482.1 *3*	†3.8	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
482.1 *3*	0.14 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
482.14 *12*	0.015 *3*	^{137}Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
• 482.182 *23*	80.50 *11*	^{181}Hf(42.39 d)	133.024(43.3), 345.916(15.12), 136.266(5.85)
482.19 *7*	0.95 *6*	^{148}La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
482.2 *3*	1.8 *4*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
482.2 *2*	0.22 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
482.2 *3*	2.11 *20*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
• 482.23 *4*	0.58 *4*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
482.3 *3*	0.103 *22*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
482.3 *1*	†5.2 *4*	^{123}La(17 s)	92.5(†100), 937.3(†43), 153.6(†43)
482.3 *2*	59 *3*	^{128}Sn(59.07 m)	75.1(27.7), 557.3(16.5), 680.5(15.9)
• 482.3	0.033	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 482.30 *3*	0.0271 *21*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
482.3 *4*	†1.1 *5*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
482.385 *17*	0.14 *5*	^{174}Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
482.39 *13*	0.24 *4*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
482.4 *1*	7.8 *7*	^{81}Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
482.4 *3*	0.9	^{113}Pd(93 s)	95.74(3.3), 643.7(3.0), 739.63(2.4)
482.4 *2*	2.0 *3*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
482.4 *2*	†100	^{152}Yb(3.1 s)	141.7(†13), 316.9(†7), 949.2(†0.7)
482.4 *3*	0.14	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
482.40 *20*	0.37 *9*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
482.44 *12*	0.475 *14*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
482.44 *10*	†0.36 *3*	^{153}Pm(5.4 m)	35.842(†100), 127.298(†75), 28.309(†34.6)
482.47 *10*	0.0457 *16*	^{137}Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
482.5 *3*	1.31 *15*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
482.5 *1*	0.059 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
482.51 *3*	3.33 *19*	^{81}Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
482.52 *12*	0.081 *17*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
482.53 *11*	†0.15 *5*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
482.57 *20*	0.38	^{154}Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
482.57 *20*	1.44	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
482.57 *4*	0.36 *3*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
482.59 *9*	0.201 *18*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
482.6 *1*	0.022 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
• 482.635 *12*	0.074 *3*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
482.7 *5*	0.12 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
482.7 *1*	2.32 *17*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
482.7 *3*	0.086 *13*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
482.8 *3*	†15 *3*	^{113}Ru(0.80 s)	263.2(†100), 211.7(†31.0), 337.5(†27.9)
482.80 *8*	0.71 *8*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
482.80 *10*	1.75 *9*	^{136}I(46.9 s)	1313.02(100), 381.359(100), 197.316(78)
482.8	0.35 *4*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
482.8	0.18 *5*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
482.8 *3*	†57 *7*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
482.833 *22*	0.0456 *18*	^{194}Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 482.833 *22*	97 *5*	^{194}Ir(171 d)	328.455(93), 600.5(62), 687.7(59)
• 482.833 *22*	1.11 *6*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
482.85 *25*	0.087 *12*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
482.86 *4*	0.754 *15*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 482.894 *12*	0.147 *7*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
483.0 *5*	†1.20 *15*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
483 *1*	0.015 *9*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
• 483.025 *18*	0.018 *3*	^{184}Re(38.0 d)	903.279(37.9), 792.071(37.5), 111.208(17.1)
483.05 *10*	4.1 *7*	^{166}Hf(6.77 m)	78.76(41), 341.82(4.7), 407.91(4.5)
483.1 *4*	0.89 *13*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
483.2 *6*	1.07 *8*	^{91}Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
483.28 *9*	0.027 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
483.3 *2*	0.17 *3*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
483.3 *3*	0.15 *5*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
483.3 *4*	0.43 *5*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
483.3 *7*	0.55 *6*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
• 483.32 *5*	0.037 *10*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
483.4 *1*	0.07 *2*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
483.45 *3*	2	^{182}Hf(61.5 m)	942.80(18.8), 799.64(9.4), 114.3152(6.2)
483.5	2.3	^{134}Nd(8.5 m)	163.2(58), 288.9(13), 216.8(12)
483.50 *20*	†24 *5*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
483.50 *20*	†8 *2*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
483.58 *3*	1.86 *5*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
483.59 *5*	0.067 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
483.6	†41.6	^{107}Mo(3.5 s)	400.3(†100), 65.7(†>92), 384.4(†57.6)
483.6 *3*	2.2 *3*	^{130}Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
• 483.62 *2*	0.0020 *3*	^{97}Ru(2.9 d)	215.718(86), 324.48(10.79), 569.31(0.873)
• 483.68 *2*	0.0050 *3*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
483.70 *20*	†2.6 *5*	^{106}Mo(8.4 s)	465.70(†100), 54.00(†54), 618.60(†25)
483.7 *3*	0.81 *16*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
483.700 *24*	3.53 *17*	^{138}I(6.49 s)	588.825(56), 875.23(9.2), 2262.19(3.86)
483.700 *24*	†2.6×10^{2}	^{139}I(2.29 s)	588.825(†900), 875.23(†70), 1464.0(†4.9)
483.7 *4*	0.217 *22*	^{143}Gd(39 s)	258.81(75), 204.77(19.4), 463.7(9.9)
483.73 *8*	1.64 *12*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
483.87 *18*	0.065 *8*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
483.87 *16*	†11.0 *19*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
483.9 *3*	0.00039 *4*	^{255}Fm(20.07 h)	81.477(0.81), 58.477(0.67), 80.92(0.27)
483.92 *11*	†4.3 *13*	^{189}Au(28.7 m)	713.17(†100), 812.68(†63), 447.65(†55)
483.98 *10*	0.245 *18*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
484.0 *5*	0.44 *8*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
484.0 *3*	0.00028 *6*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
484.0 *5*	†0.6	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
484.0 *2*	†4.5 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
484.0 *3*	0.20 *3*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
484.03 *4*	0.26 *3*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
484.04 *9*	0.88 *14*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 484.06 *11*	0.047 *5*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
484.10 *20*	0.195 *25*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
484.1 *5*	0.27	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 484.1 *2*	4.0×10^{-6} *1*	^{233}U(1.592×10^{5} y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
484.11 *20*	0.08 *3*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
484.119 *20*	0.0172 *8*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
484.14 *17*	0.093 *14*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
484.158 *13*	1.07 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
484.2	10.6 *13*	^{39}S(11.5 s)	1301.7(52), 1696.5(44), 394.8(37)
484.2 *3*	†2.5 *4*	^{71}Se(4.74 m)	147.50(†211), 1095.26(†43.6), 830.33(†43.2)
484.2 *1*	0.117 *11*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
484.2 *1*	0.026 *3*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
484.2 *2*	†1.7 *4*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
484.2 *2*	0.38 *8*	^{235}Th(7.1 m)	417.0(2), 727.2(0.87), 696.1(0.64)
484.212 *5*	0.28 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
484.25 *18*	†0.24 *7*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
• 484.25 *5*	0.170 *12*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
484.26 *6*		^{168}Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
484.26 *6*	0.31 *15*	^{168}Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
484.3 *3*	0.5	^{135}Pr(24 m)	296.12(24), 82.64(13.7), 213.45(13.0)
484.3	>0.026	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
• 484.3 *3*	0.0010	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
• 484.3 *3*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
484.4 *2*	0.7	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
484.4 *4*	†3.5 *15*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
484.40 *4*	<0.08	^{183}Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
484.40 *4*	2.21 *11*	^{183}Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
• 484.470 *20*	0.290 *2*	^{115}Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 1132.570(0.0856)
484.5 *4*	0.066 *16*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
484.5	0.056 *25*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
484.5 *1*	†49.8 *4*	^{200}At(43 s)	665.9(†100), 611.1(†85.0), 565.0(†17.0)
484.5	0.008	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
484.501 *5*	11.3 *23*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 495.309(11.2)
484.53 *16*	0.028 *6*	^{88}Rb(17.78 m)	1836.063(21.40), 898.042(14.04), 2677.892(1.96)
• 484.545 *10*	1.000 *23*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
• 484.5780 *4*	3.184 *11*	^{192}Ir(73.831 d)	205.79549(3.300), 374.4852(0.721), 201.3112(0.472)
484.6 *1*	3.21 *17*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
484.6 *2*	†3 *1*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
484.6 *3*	0.091 *20*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
484.6 *3*	0.027 *7*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
• 484.64	0.00398 *21*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
484.65 *20*	2.5 *4*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
• 484.65 *4*	0.164 *7*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
484.7 *2*	0.66 *9*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
484.7 *5*	0.42 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
484.7 *5*	1.6 *3*	^{231}Np(48.8 m)	370.9(10), 348.4(3.63), 263.8(2.84)
• 484.73 *3*	0.107 *6*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
484.74 *21*	0.156 *20*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
484.77 *8*	0.31 *3*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
484.79 *3*	1.02 *13*	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
• 484.8 *3*	0.0059 *14*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
• 484.8 *1*	0.00030 *15*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
• 484.805 *5*	89.7 *3*	^{87}Y(79.8 h)	388.531(82)
484.85 *15*	0.45 *6*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
484.85 *25*	0.074 *12*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
484.86 *6*	6.3 *4*	^{79}Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
484.87 *25*	†2.6 *5*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
484.89 *17*	0.42 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
484.9 *10*	2.2 *18*	^{33}Na(8.2 ms)	546.5(6.4), 1242.6(4.2), 704.3(3.7)
484.9 *3*	1.06 *6*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
• 484.9 *1*	3.02 *15*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
484.90 *20*	0.32 *9*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
485.0 *2*	0.562 *25*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
485.0 *4*	0.46 *8*	^{139}Nd(29.7 m)	405.12(7), 1074.2(2.5), 669.0(1.52)
485 *1*	1.7 *5*	^{164}Ta(14.2 s)	211.05(74), 376.8(22), 605.0(14)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
485.0 *6*	0.24 *7*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
485.02 *6*	0.209 *21*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
• 485.03 *20*	0.00042 *4*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
485.04 *5*	0.240 *22*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
485.1 *5*	†0.38 *7*	^{120}I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
485.1 *5*	1.2 *3*	^{120}I(53 m)	560.44(100), 601.11(87), 614.62(67)
485.10 *27*	†0.9 *3*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
485.10 *25*	0.51 *3*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
485.16 *20*	0.14 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
485.2 *2*	0.70 *8*	^{96}Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
485.23 *20*	0.137 *14*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 485.23 *20*	0.73 *16*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
485.3 *3*	0.26 *4*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
485.3 *2*	5.0 *11*	^{136}Sm(47 s)	114.4(36), 747.7(5.4), 313.6(4.7)
485.3	0.8	^{144}Tb(4.25 s)	743.0(12), 1001.6(7), 959.36(4.7)
485.3 *3*	0.56 *8*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
• 485.30 *11*	0.0022 *5*	^{192}Ir(73.831 d)	316.50791(82.81), 468.07152(47.83), 308.45692(30.00)
485.30 *11*	0.070 *6*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
485.38 *10*	0.43 *4*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
485.4 *2*	0.068 *23*	^{225}Th(8.72 m)	321.4(23), 246.0(5.06), 359.0(4.1)
485.43 *11*	0.103 *10*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
485.44 *7*	†19.0 *19*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 485.44 *7*	0.089 *7*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
485.5 *10*	3.4 *3*	^{119}Cs(43.0 s)	176.05(29.7), 225.13(26), 257.9(17.4)
485.50 *25*	0.48 *10*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
485.6 *6*	0.14 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
485.6 *3*	†30 *4*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
• 485.648 *9*	0.015	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
485.7 *1*	>2.3	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
485.7 *3*	1.5 *3*	^{112}Rh(6.8 s)	348.70(87), 560.5(49), 1098.6(39)
485.7		^{180}Os(21.5 m)	20.1(†100), 717.4, 667.0
485.72 *10*	2.36 *12*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
485.76 *7*	0.71 *3*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
485.8 *3*	0.52 *4*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
485.80 *11*	5.9 *8*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
485.88 *9*	0.026 *5*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
485.88 *9*	0.52 *8*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
485.9 *5*	0.50 *7*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
• 485.90 *14*	0.016 *3*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 485.91 *20*	†1.0×10^4 *3*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 485.931 *20*	0.165 *7*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
485.95 *5*	0.292 *16*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
485.95 *15*	0.050 *5*	^{208}Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
486.0 *2*	0.100 *18*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 486.06 *5*	0.0858 *9*	^{160}Tb(72.3 d)	879.383(30.01), 298.580(25.51), 966.171(25.21)
486.086 *17*	0.0768 *20*	^{188}Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
486.1 *3*	0.50 *20*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
486.1 *3*	0.16 *8*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
486.1 *2*	†3.0 *18*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
486.1 *1*	2.09 *16*	^{203}Po(36.7 m)	908.64(55), 1090.95(19.2), 893.49(18.7)
486.11 *3*	0.335 *17*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 486.11 *15*	0.011 *6*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
• 486.160 *18*	0.66 *3*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 486.19 *13*	0.33 *3*	^{99}Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
486.19 *13*	0.64 *7*	^{99}Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
486.2 *4*	0.16 *6*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
486.3 *5*	0.030 *10*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
486.3 *6*	0.034 *17*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
486.35 *7*	1.23 *9*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
486.4	0.08	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
486.5 *3*	0.16 *4*	^{88}Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
486.5 *2*	0.080 *3*	^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
486.5 *4*		^{139}Eu(17.9 s)	267.3(31), 155.3(31), 190.1(25)
• 486.5	0.016 *3*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
486.5 *5*	0.12	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
486.5 *3*	†8 *3*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
• 486.522 *12*	2.087 *14*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
• 486.54 *11*	0.055 *5*	^{56}Co(77.27 d)	846.771(100), 1238.282(67.6), 2598.459(17.28)
486.6 *2*	0.0068 *16*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
486.69 *6*	1.19 *19*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
486.69 *6*	>0.35	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
486.7 *4*	0.12 *5*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
486.7	0.060 *14*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
486.7 *3*	†61 *6*	^{147}Ho(5.8 s)	189.1(†100), 883.9(†100), 1263.7(†36)
486.71 *6*	1.10 *18*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
486.73 *10*	0.066 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
486.79 *3*	1.56 *7*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
486.8 *2*	0.224 *18*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
486.8 *5*	†8.5 *14*	^{102}Y(0.36 s)	151.73(†100), 326.64(†53), 1091.3(†42)
486.8 *2*	0.9 *3*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
486.8	1.3 *6*	^{147}Cs(0.225 s)	85.2(7.3), 245.8(4.5), 109.7(4.5)
• 486.80 *15*	0.0188 *9*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
486.8 *3*	0.032 *5*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 486.83 *2*	0.0020 *3*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
• 486.852 *8*	0.0241 *20*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
486.87 *2*	0.06	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
486.9 *4*	0.29 *14*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
486.9 *5*	0.29 *8*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
486.98 *19*	0.075 *12*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
487.0 *2*	0.79 *24*	^{69}Ni(11.4 s)	1871.1(40.9), 679.7(39.7), 1213.0(39.3)
487 *1*	†1.5 *3*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
487 *1*	0.39	^{113}Ag(68.7 s)	316.3(18), 392.3(11), 298.58(10)
487.0 *2*	22.5 *16*	^{168}Dy(8.7 m)	192.5(32.8), 443.3(15.5), 630.4(13.6)
487.0		^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
487.0 *1*	2.3	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
• 487.015 *14*	2.65×10^{-7} *21*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 487.021 *12*	45.5 *6*	^{140}La(1.6781 d)	1596.210(95), 815.772(23.28), 328.762(20.3)
• 487.05 *19*	0.006 *4*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
487.05 *19*	$\dagger1.8\times10^{3}$ *5*	^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)
487.08 *8*	0.44 *4*	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
487.09 *19*	0.7 *4*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
487.1 *1*	0.0126 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
• 487.1 *2*	0.017 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
487.1 *4*	†2.1 *4*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
487.1 *2*	0.0108 *20*	^{251}Fm(5.30 h)	880.8(2.19), 453.1(1.45), 405.6(0.99)
487.16 *31*	0.63 *15*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
487.18 *2*	1.37 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 487.2 *2*	0.0126 *19*	^{125}Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
487.2 *2*	†0.16 *6*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
487.2 *3*	0.0091 *20*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
487.29 *9*	0.165 *23*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
487.3 *3*	0.60 *20*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
487.3	0.20	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
• 487.3 *3*	†4.4×10^3	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 487.3		^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
487.31 *5*	4.6 *3*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
487.38 *4*	0.118 *13*	^{71}Zn(2.45 m)	511.56(32), 910.27(7.8), 389.88(3.8)
487.38 *4*	62 *3*	^{71}Zn(3.96 h)	386.28(93), 620.18(57), 511.56(28.4)
487.39 *5*	1.42 *5*	^{129}Te(69.6 m)	27.81(16.3), 459.60(7.70), 278.43(0.567)
• 487.39 *5*	0.00023 *5*	^{129}Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
• 487.399 *10*	1.044 *21*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
487.41 *6*	0.34 *5*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
487.5 *4*	0.47 *4*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
487.5 *1*	10.7 *18*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
487.59 *2*	2.77 *19*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
487.6 *4*		^{107}Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
487.6 *6*	0.202 *25*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
487.6 *2*	0.616 *13*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
• 487.6 *3*	0.0110 *14*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
487.7 *4*		^{130}Pr(40.0 s)	951.9, 499.0, 1405
487.7	0.81 *10*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
487.7 *3*	0.29 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
• 487.70 *6*	0.212 *22*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
487.7 *2*	†22 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
• 487.75 *23*	0.00036 *5*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
487.77 *10*	60 *7*	^{118}Ag(3.76 s)	677.13(11.9), 2788.7(11.8), 3224.3(10.5)
487.77 *10*	57 *6*	^{118}Ag(2.0 s)	677.13(53), 1058.39(14.8), 770.90(11.8)
487.8 *5*	0.14	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
487.8 *1*	10.0 *5*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
487.8 *1*	†1.9 *2*	^{200}At(43 s)	665.9(†100), 611.1(†85.0), 484.5(†49.8)
487.86 *11*	0.55 *3*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
487.873 *5*	0.18 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
487.9 *2*	0.005 *2*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
• 487.92 *4*	0.039 *5*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
487.93 *4*	0.70 *7*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
487.96 *8*	0.28 *5*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
488.0 *4*	0.41 *5*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
488 *2*	0.09 *3*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
488.0 *1*	1.38 *13*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
488.0 *5*		^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
488.1 *3*	0.26 *7*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
488.1 *2*	0.088 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
488.1 *2*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
488.18 *12*	0.127 *12*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
488.19 *8*	0.034 *8*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
488.20 *10*	0.359 *24*	^{73}Ga(4.86 h)	297.32(79.8), 325.70(11.17), 739.42(4.23)
• 488.2 *2*	0.014 *3*	^{245}Bk(4.94 d)	252.80(29.1), 380.8(2.40), 385.0(0.57)
488.24 *10*	1.38 *10*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
• 488.26	0.0070 *25*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
488.3 *6*	0.080 *19*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
488.3 *2*	0.092 *14*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
488.3 *1*	0.097 *8*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 488.3 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
488.34 *16*	†0.67 *13*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
488.4 *2*	0.34 *7*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
488.4 *2*	0.34 *7*	^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
488.45 *20*	0.11 *4*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
488.5 *6*	0.08 *3*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
488.5 *3*	0.0028	^{104}Rh(42.3 s)	555.796(2.0), 1237.2(0.066), 767.72(0.011)
488.5 *3*	0.00014	^{104}Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
488.6 *5*	0.17 *5*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
• 488.65 *15*	0.017 *3*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
• 488.66 *4*	0.407 *4*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
488.7 *5*	0.011 *5*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
488.7 *2*	†18.6 *8*	^{136}Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
488.7 *2*	†22	^{136}Pm(47 s)	373.8(†100), 862.5(†28), 602.7(†17)
488.7 *2*	9.2 *9*	^{136}Pm(107 s)	373.8(15.0), 602.7(12.3), 857.2(12.72)
488.7 *1*	0.0374 *17*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
488.79 *20*	0.7 *4*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
488.8 *4*	0.073 *18*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
488.8 *10*	0.050 *14*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
• 488.82 *8*	0.074 *16*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
488.82 *4*	0.091 *4*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
488.88 *4*	1.43 *10*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
488.9 *10*	0.25 *6*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
488.9 *5*	0.39 *10*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
489.0 *6*	0.227 *21*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
489.0	0.2	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
489.0 *2*	0.267 *11*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
489 *1*		^{219}Ra(10 ms)	805.2, 592.0, 315.82
489.0		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
489.039 *13*		^{192}Re(16 s)	467.47(†100), 750.96(†25), 283.2668
• 489.039 *13*	0.443 *4*	^{192}Ir(73.831 d)	205.79549(3.300), 484.5780(3.184), 374.4852(0.721)
489.049 *12*	†28.0 *6*	^{148}Tb(60 m)	784.430(†119.0), 1079.025(†16.2), 631.947(†15.1)
489.049 *12*	5.2 *5*	^{148}Tb(2.20 m)	784.430(100), 631.947(95), 882.3(92)
489.05 *5*	1.33 *11*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
489.1 *2*	0.053 *18*	^{101}Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
• 489.1 *2*	†0.011	^{101}Rh(4.34 d)	306.85(†115), 545.06(†6.1), 127.23(†0.85)
489.1 *1*	42	^{111}Sb(75 s)	154.48(71), 1032.6(10.0), 755.4(5.1)
489.17 *7*	0.0159 *16*	^{62}Zn(9.186 h)	596.56(26), 40.84(25.5), 548.35(15.3)
• 489.2 *5*	0.019 *10*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 489.23 *10*	6.5 *4*	^{47}Ca(4.536 d)	1297.09(74), 807.86(6.5), 767.1(0.199)
• 489.24 *3*	0.153 *8*	^{147}Nd(10.98 d)	91.105(28), 531.016(13.1), 319.411(1.95)
• 489.25 *6*	0.140 *16*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
489.27 *5*	1.3 *3*	^{115}Sb(32.1 m)	497.358(98), 1236.52(0.58), 1633.72(0.352)
489.3 *2*	2.9 *3*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
489.3 *4*	0.15 *8*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
489.40 *8*	1.23 *12*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
489.4 *3*	0.13 *3*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
489.48 *10*	0.55 *6*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
489.49 *15*	0.43 *6*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
489.5	1.0	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
489.5 *4*	0.148 *10*	^{114}Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
489.5 *6*	0.14 *6*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
489.5 *5*	0.61 *6*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
489.5 *3*	0.50 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
489.52 *4*	2.73 *17*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
489.6 *3*	†15.9 *17*	^{198}Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)
489.61 *12*	0.23 *5*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
489.7 *4*	†100 *8*	^{71}Cu(19.5 s)	595.2(†30.5), 586.5(†30.2), 674.8(†25.4)
489.7 *1*	1.04 *15*	^{73}Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
489.7 *2*	0.28 *14*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
489.7 *3*	0.22 *3*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
489.7 *3*	†2	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
489.8 *4*	0.73 *10*	^{90}Mo(5.67 h)	257.34(78), 122.370(64.2), 203.13(6.4)
489.8 *1*	1.4 *3*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
489.8 *1*	0.81 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
489.9 *2*	0.36 *4*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
489.90 *20*	5.53 *12*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 858.70(3.21)
489.90 *20*	0.266 *6*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
489.9 *4*	0.8 *3*	^{99}Zr(2.1 s)	469.140(55), 546.13(48.6), 593.990(27.4)
489.9 *2*	0.0093 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
• 489.9 *7*	†0.08 *2*	^{136}Cs(13.16 d)	818.514(†100), 1048.073(†80), 340.547(†42.3)
489.90 *10*	0.0034 *3*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
489.9 *6*	0.11	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
489.96 *8*		^{148}Pr(2.0 m)	301.702(95), 450.58(50), 697.61(40)
490.0 *3*	†0.9 *4*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
490.00 *16*	†7.5 *11*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
490.0 *4*	1.8 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
490.1 *4*	0.37 *6*	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
490.2 *4*	0.18 *4*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
490.2 *3*	†20.0 *21*	^{109}Tc(0.87 s)	194.6(†100), 128.7(†51), 96.2(†48)
490.2 *4*	0.23 *12*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
490.24 *17*	0.132 *3*	^{73}Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
• 490.26 *5*	0.126 *9*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
490.3 *3*	0.063 *6*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
490.3 *2*	†20	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
• 490.32 *3*	0.160 *4*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
490.33 *15*	0.0114 *24*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
• 490.34 *20*	>0.00023	^{129}Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
• 490.368 *5*	2.161 *21*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
490.4 *2*	0.88 *16*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
490.40 *2*	0.192 *24*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
490.4 *3*	†0.23 *14*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
490.4 *3*	0.11 *6*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
490.4 *5*	0.45 *12*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
490.40 *24*	†1.04 *21*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
• 490.444 *8*	0.414 *24*	^{172}Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
• 490.444 *8*	1.91 *6*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
490.47 *7*	9.1 *5*	^{202}Pb(3.53 h)	459.72(8.6), 389.94(6.2), 241.1(0.84)
490.5 *1*	†3.8 *7*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
490.5 *5*	†15.8 *18*	^{244}Bk(4.35 h)	891.5(†100), 217.6(†88), 921.5(†19)
• 490.53 *15*	0.0011 *4*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
• 490.6 *10*	0.034 *10*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
490.6 *5*	†1.5 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
490.69 *9*	2.4 *3*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
490.7 *3*		^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
490.71 *10*	3.48 *18*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 490.71 *10*	0.78 *4*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
490.72 *11*	0.36 *5*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
490.748 *4*	0.33 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
490.76 *20*	0.32 *4*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
490.78 *11*	0.108 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
490.8 *4*	0.062 *11*	^{146}Ce(13.52 m)	316.74(56), 218.23(20.8), 264.56(9.0)
490.8 *10*	0.19 *4*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
490.8 *4*	0.14	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
• 490.8 *4*	0.00053 *10*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
490.80 *6*	0.17	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
490.9 *1*	0.9 *2*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
490.9 *1*	0.52 *13*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
490.9 *4*	5.4 *5*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
490.9 *4*	90 *9*	^{127}Sn(4.13 m)	1348.0(4.8), 1564.0(4.0), 1584.5
490.9 *3*	0.015 *5*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
490.9 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 490.95 *15*	0.0224 *7*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
491		^{125}Ce(9.0 s)	56
491.13 *11*	4.8 *6*	^{59}Zn(182.0 ms)	913.85(1.1), 422.6(<0.2)
491.15 *7*	0.107 *17*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
491.16 *36*	0.039 *11*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
491.20 *14*	8.5 *1*	^{81}As(33.3 s)	467.72(20), 521.10(1.40), 1406.14(0.998)
• 491.243 *11*	2.85 *6*	^{126}I(13.11 d)	388.633(34.1), 879.876(0.754)
491.243 *11*	5.0 *4*	^{126}Cs(1.64 m)	388.633(41), 925.24(4.56), 879.876(1.29)
491.269 *20*		^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
491.27 *17*	0.275 *25*	^{92}Sr(2.71 h)	1383.93(90), 953.31(3.52), 430.49(3.28)
491.28 *12*	0.70 *12*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
491.30 *27*	0.000089 *13*	^{81}Se(57.28 m)	275.988(0.049), 260.21(0.048), 767.1(0.00061)
491.3 *3*	2.4	^{136}Te(17.5 s)	2077.9(22), 333.99(19), 578.75(18)
491.3 *2*	0.006	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
491.4 *3*	0.070 *8*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
491.4 *5*	†19	^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
491.47 *4*	0.34 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
491.47 *4*	1.46 *17*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
491.5	0.12	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
• 491.5 *1*	0.031 *3*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
491.5 *4*	0.30 *14*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
491.575 *10*	0.38 *5*	^{109}Rh(80 s)	326.868(54), 426.135(7.7), 178.034(7.6)
491.591 *9*	2.7 *3*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
491.6 *3*	3.02 *22*	^{180}Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
491.64 *5*	0.080 *6*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
• 491.64 *8*	0.050 *9*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
491.7 *2*	0.18 *4*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
491.70 *4*	1.27 *4*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
491.8 *2*	†0.88 *8*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
491.8 *5*	†12 *5*	^{157}Yb(38.6 s)	230.92(†100), 340.7(†90), 241.7(†74)
491.82 *12*	0.0041 *8*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
491.89 *3*	0.090 *13*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
491.9 *6*	†0.23 *9*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
491.9 *1*	0.37	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
491.9 *2*	†4.0 *4*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
491.9 *1*	0.274 *20*	^{208}Fr(59.1 s)	635.8(10), 778.5(6.8), 325.3(5.2)
491.93 *22*	0.080 *12*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
491.93 *14*	0.00116 *23*	^{129}Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
492.0 *4*	0.010 *4*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
492.0 *10*	†0.4 *2*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
492.0 *4*	0.35 *9*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
492.08 *2*	2.79 *10*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
492.1 *2*	0.18 *5*	^{108}Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
492.10 *24*	0.137 *20*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
• 492.1 *3*	0.0060	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
• 492.1 *3*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
492.17 *16*	†<10	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
492.2 *1*	6.9 *7*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
492.2 *5*	†0.05 *1*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
492.21 *3*	1.48 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
492.24 *10*	0.111 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 492.25 *26*	0.047 *23*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 492.3 *6*	8.03 *9*	^{115}Cd(53.46 h)	336.240(45.9), 527.900(27.45), 260.890(1.94)
• 492.3 *6*	0.0096 *2*	^{115}Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
492.30 *4*	1.53 *7*	^{199}Tl(7.42 h)	455.46(12.4), 208.20597(12.3), 247.26(9.3)
• 492.31 *15*	0.00328 *12*	^{145}Sm(340 d)	61.25(12), 431.4(0.000052)
492.37 *10*	0.0242 *24*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
492.4 *4*	1.01 *8*	^{70}As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
492.4 *3*	0.0012 *6*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
• 492.41 *8*	0.098 *7*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
492.48 *8*	0.49 *3*	^{92}Y(3.54 h)	934.46(13.9), 1405.28(4.8), 561.03(2.40)
492.50 *19*	1.3	^{45}K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
492.5 *3*	1.2 *5*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
492.5 *3*	0.061 *20*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
492.56 *8*	0.34 *4*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
• 492.58 *5*	0.569 *18*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
492.6	3.6 *9*	^{23}F(2.23 s)	1701.44(33.0), 2129.3(22), 1822.4(15.6)
492.6 *1*	0.56 *5*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
492.6 *3*	4.2 *3*	^{94}Rh(70.6 s)	1430.50(100), 756.23(51), 1072.50(30.7)
492.6 *2*	3.6 *6*	^{124}Cs(30.8 s)	353.9(40), 914.8(4.0), 846.9(1.19)
492.6	1.0	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
492.624 *5*	0.0252 *6*	^{145}Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
492.63 *15*	0.61 *3*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
492.63 *5*	1.21 *3*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
492.63 *5*	1.03 *19*	^{108}Sn(10.30 m)	396.44(64.3), 272.75(45.5), 669.08(22.6)
492.66 *1*	4.826 *21*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
• 492.66 *1*	<0.30	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
492.68 *4*	0.0045	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
492.7 *2*	0.96 *24*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
492.7 *2*	2.1	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
492.7 *1*	†13.2 *15*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
492.7 *1*	†1.5 *2*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
492.7 *3*	0.006	^{212}Bi(60.55 m)	39.858(1.091), 452.83(0.31), 288.07(0.31)
• 492.781 *36*	0.0113 *9*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
492.80 *20*	0.025 *8*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
492.8 *5*		^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
• 492.81 *7*	0.0186 *12*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
492.85 *6*	0.67 *7*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
492.86 *10*	84	^{169}Hf(3.24 m)	369.5(9.7), 123.5(3.9), 68.4(1.6)
492.9 *3*	18.0 *10*	^{60}Mn(1.77 s)	823.63(74), 1968.8(53), 2299.3(13.0)
492.9 *3*	0.035 *17*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
492.9 *1*	72.5 *6*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
492.9 *6*	0.034 *12*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
492.92 *20*	2.4 *3*	^{130}In(0.55 s)	2258.79(88), 391.39(11.4), 96.54(4.2)
492.92 *20*	1.4 *3*	^{130}In(0.55 s)	1221.24(89), 774.37(46), 89.23(20.2)
492.936 *6*	4.9 *3*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
492.94 *15*	0.15 *4*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
492.95 *9*		^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
492.95 *12*	0.75 *8*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
492.96 *15*	0.77 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
493.0 *1*	6.7 *14*	^{75}Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
493.0 *2*	4.6 *5*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
493.0 *3*	0.10 *3*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
493		^{219}Fr(20 ms)	530, 352, 189
493.03 *10*	0.0105 *5*	^{137}Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
493.1 *2*	0.105 *23*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
493.1 *2*	†21.6 *13*	^{138}Pm(3.24 m)	520.9(†100), 729.0(†37.8), 1279.1(†11.0)
493.1 *2*	0.16 *3*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
493.1 *2*	0.0027 *3*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 493.1 *2*	†0.034 *5*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
493.12 *7*	†8.6 *6*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
• 493.145 *7*	8.7×10^{-7} *3*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
493.18 *10*	0.11 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
493.2 *4*	3.2 *3*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
493.2 *2*	†5.7 *5*	^{194}Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
493.3 *2*	0.37 *9*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
493.3 *3*	0.138 *14*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
493.38 *5*		^{173}W(7.5 m)	457.68(†100), 130.19(†31.5), 174.8(†29.1)
493.39 *5*	0.100 *9*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
493.4 *1*	1.50 *16*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
• 493.4	0.012	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 493.43 *9*	0.0103 *9*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
493.46 *4*	0.107 *4*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 493.50 *2*	0.0094 *13*	^{152}Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
493.50 *2*	†3.2 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
• 493.503 *19*	0.0313 *21*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
• 493.51 *10*	0.047 *6*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
493.52 *15*	†12.1 *7*	^{193}Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
493.6 *3*	†2.67 *13*	^{187}Pb(15.2 s)	299.5(†100), 617.2(†2.67), 448.7(†1.33)
• 493.66 *4*	0.373 *8*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
493.7 *2*	11.7 *12*	^{103}Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
493.72 *6*	0.32 *3*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
493.772 *2*	5.59 *15*	^{199}Pt(30.80 m)	542.993(15), 317.056(4.95), 185.768(3.32)
493.8 *5*	0.26 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
493.8 *8*	0.42	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
493.8 *3*	0.035 *17*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
493.8 *3*	0.090 *9*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
493.83 *4*	0.138 *7*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
493.85 *5*	0.060 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 493.89 *9*	0.066 *16*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
493.9 *4*	1.1 *3*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
• 493.9 *1*	0.00035 *18*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
493.9 *5*	5.7 *11*	^{196}Pb(37 m)	253.1(27.0), 502.1(26.5), 366.5(11.1)
493.9 *1*	0.131 *11*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
494.0 *3*	†30 *10*	^{112}Te(2.0 m)	372.70(†100), 296.20(†86), 418.9(†57)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
494.1 *4*	0.008 *4*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
494.1 *2*	†4.9 *4*	^{168}Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
494.1 *2*	†76 *12*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
494.164 *16*	11.4 *6*	^{174}Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
• 494.169 *15*	0.0691 *14*	^{67}Ga(3.2612 d)	93.311(39.2), 184.577(21.2), 300.219(16.80)
494.2 *8*	0.25 *12*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
494.2 *4*	†15.0 *20*	^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
494.2 *3*	0.0017 *7*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
494.3 *4*	0.06 *6*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
494.3 *4*	0.51 *23*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
494.3 *4*	0.18 *7*	^{119}Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
494.3 *1*	6.7 *7*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
494.3 *2*	1.2	^{200}Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
494.31 *10*	0.87 *11*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
494.32 *17*	†0.194 *22*	^{153}Pm(5.4 m)	35.842(†100), 127.298(†75), 28.309(†34.6)
• 494.360 *8*	0.001486 *25*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
• 494.38 *12*	0.056 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
494.4		^{130}Pr(40.0 s)	951.9, 499.0, 1405
494.4 *4*	0.3 *1*	^{156}Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
• 494.419 *16*	0.0398 *13*	^{147}Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
494.50 *20*	0.73 *10*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
494.50 *20*	8.1 *11*	^{83}Y(2.85 m)	259.10(54), 421.8(19.5)
494.5 *3*	0.0030 *15*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
494.5		^{157}Lu(5.0 s)	967.5, 949.8, 880.5
494.52 *25*	0.10 *3*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
494.534 *27*	23	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 421.860(11.5)
494.55 *25*	0.59	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
494.6 *2*	0.23 *6*	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
494.6 *2*	1.00 *6*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
• 494.6 *2*	0.011 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
494.6 *3*	†0.55 *23*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
494.6 *3*	0.26 *11*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
494.60 *13*	0.191 *25*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
494.6 *2*	0.05	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
494.6 *10*	0.008	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
494.62 *12*	0.74 *4*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
494.68 *18*	†1.6 *2*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
• 494.69 *7*	0.060 *6*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
494.7 *2*	†60	^{134}Pm(24 s)	294.2(†100), 459.3(†15), 631.3(†10)
494.7 *3*	0.050	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
• 494.7 *1*	0.0042 *4*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
494.85 *5*	0.076 *7*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
494.87 *15*	0.33 *5*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
494.89 *10*	0.37 *6*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
• 494.90 *15*	0.015 *4*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 494.94 *5*	0.053 *3*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
494.98 *13*	0.0140 *22*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
495.0 *1*	0.193 *22*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
495.00 *2*	0.97 *6*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
495.0 *2*	†2.9 *1*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
495.07 *7*	0.604 *24*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
495.1 *2*	1.04 *8*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
495.16	>0.0014	^{95}Tc(20.0 h)	765.794(93.82), 1073.71(3.74), 947.67(1.951)
495.2 *10*	0.103 *22*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 495.25 *6*	0.256 *8*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 495.28 *10*	0.047 *20*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
495.3 *4*	0.054 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
495.3 *4*	0.021 *8*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
• 495.3 *2*	0.014 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
495.3 *3*	0.138 *14*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
495.309 *6*	11.2 *22*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 484.501(11.3)
495.32 *10*	0.61 *10*	^{17}Ne(109.2 ms)	
495.354 *4*	0.102 *10*	^{114}Ag(4.6 s)	558.454(20.40), 576.08(1.77), 1301.234(1.31)
495.4 *2*	0.002 *1*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
495.6 *3*	1.48 *8*	^{73}Zn(23.5 s)	218.1(6.00), 910.5(1.91), 1612.9(0.92)
495.6 *2*		^{106}In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
495.66 *7*	1.57 *11*	^{157}Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
495.7 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
495.7 *1*	0.58 *5*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
495.8 *4*	0.39 *9*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
495.8 *2*	6.7 *9*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
495.8 *2*	0.50 *5*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
495.8 *12*		^{196}Tl(1.84 h)	426.0(84), 610.5(11.9), 635.5(9.8)
495.88 *24*	0.056 *4*	^{72}Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
495.88 *5*		^{126}Pr(3.1 s)	349.40, 169.55
495.9 *1*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
495.95 *9*	0.15 *7*	^{205}Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
• 495.956 *7*	0.08 *4*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
• 496.0 *5*	†0.017 *3*	^{101}Rh(4.34 d)	306.85(†115), 545.06(†6.1), 127.23(†0.85)
496.0 *6*	0.15 *10*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
496.00 *9*	0.85 *12*	^{118}I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
496.00 *9*	1.37 *17*	^{118}I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
496.0 *3*	†7.2 *8*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
496.0 *8*	0.041 *17*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
496 *1*	0.0014	^{251}Fm(5.30 h)	425.4(0.95), 480.4(0.392), 358.3(0.315)
496.07 *10*	†13 *1*	^{163}Hf(40.0 s)	70.98(†100), 62.14(†64), 45.39(†48)
496.08 *15*	0.033 *10*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
496.1	0.8	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
496.1 *3*	†5.5 *17*	^{155}Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
• 496.1 *1*	0.00045 *23*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
496.15 *7*	0.146 *5*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
496.2 *4*	0.18 *6*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
• 496.2 *10*	0.052 *21*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
496.2 *4*	0.00017 *4*	^{255}Fm(20.07 h)	81.477(0.81), 58.477(0.67), 80.92(0.27)
496.22 *4*	0.144 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
496.23 *8*	0.034 *7*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
496.231 *17*	0.639 *7*	^{183}Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
496.3	0.18	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
496.3 *1*	23.5 *10*	^{150}Tb(5.8 m)	638.05(100), 650.4(70), 438.37(42)
496.3 *1*	14.8 *3*	^{150}Tb(3.48 h)	638.05(72), 792.5(4.39), 650.4(4.03)
496.30 *11*	†37 *3*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
496.30 *11*	†5 *2*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
496.3 *5*	0.10 *4*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
• 496.3 *3*	0.0025 *13*	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
496.3 *2*	†1.30 *19*	^{196}Bi(240 s)	1049.21(†21.1), 371.93(†20.8), 689.00(†19.2)
• 496.326 *13*	47	^{131}Ba(11.50 d)	123.805(28.97), 216.078(19.66), 373.246(14.04)
• 496.383 *2*	1.658 *24*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
• 496.39 *3*	0.0046 *8*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 496.39 *3*	0.0046 *6*	^{152}Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
496.39 *3*	†3.2 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
496.4 *6*	1.2 *4*	^{130}In(0.55 s)	1221.24(89), 774.37(46), 89.23(20.2)
496.4 *1*	†2.0 *10*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
• 496.404 *11*	0.077 *9*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
496.44 *6*	†36	^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
496.5 *6*	0.22 *3*	^{124}In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
496.5 *6*	1.30 *20*	^{124}In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
496.5 *2*	13.0 *13*	^{132}Sb(4.10 m)	696.8(100), 973.9(100), 150.6(66)
496.50 *25*	0.9 *3*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
• 496.52 *7*	0.211 *16*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
496.56 *5*	1.81 *10*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
496.7 *3*	†8 *5*	^{155}Tm(45 s)	88.1(†100), 323.2(†65), 507.0(†40)
496.70 *15*	0.092 *23*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
496.7 *3*	0.0100 *20*	^{240}Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
496.75 *18*	0.37 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
496.8 *3*	0.066 *11*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
496.8 *1*	†1.6 *3*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
496.88 *13*	0.87 *12*	^{100}Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
496.9 *2*	†25 *3*	^{132}Pr(1.6 m)	325.5(†100), 822.4(†17.3), 533.1(†15.2)
496.9 *2*	0.269 *22*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
• 496.9 *3*	0.0016 *8*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
• 496.935 *16*	0.123 *4*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
496.935 *16*	0.187 *4*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
496.97 *13*	0.158 *16*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
• 496.98 *13*	0.016 *5*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
497.0 *5*	2.61 *25*	^{70}As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
497.0 *8*	0.13 *5*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
497.0 *2*	0.079 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
• 497.0 *5*	4.6×10^{-8} *23*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 497.06 *4*	15.31 *15*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
• 497.080 *7*	90.9 *10*	^{103}Ru(39.26 d)	610.33(5.75), 443.799(3.27), 557.039(0.8672)
• 497.080 *7*	0.00396 *14*	^{103}Pd(16.991 d)	39.757(0.07), 357.47(0.0221), 294.978(0.00280)
497.1 *2*	1.00 *14*	^{122}Cs(21.0 s)	331.1(48), 512.0(3.8), 817.9(3.09)
497.1 *2*	79 *5*	^{122}Cs(4.5 m)	331.1(94), 638.5(63), 560.3(14.0)
497.1 *4*	0.021	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
497.2 *6*	†8.0 *11*	^{102}Tc(4.35 m)	475.070(†115), 628.05(†35.3), 631.28(†21.3)
497.2 *4*	8.0×10^{-5}	^{109}Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
497.2 *3*	8.7 *18*	^{139}Eu(17.9 s)	267.3(31), 155.3(31), 190.1(25)
497.2 *4*	0.11	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
497.22 *7*	5.2 *4*	^{108}Rh(16.8 s)	433.937(43), 618.84(15.0), 931.15(1.46)
497.22 *7*	19.3 *9*	^{108}Rh(6.0 m)	433.937(88), 581.1(60), 947.27(49)
497.22 *7*	0.0022 *6*	^{108}Ag(2.37 m)	433.937(0.50), 618.84(0.261), 1007.22(0.0139)
497.294 *7*	0.184 *22*	^{78}As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
497.3 *2*	0.48 *6*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
497.3 *1*	0.59 *8*	^{143}Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
• 497.3 *4*	0.0039 *7*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
497.358 *24*	0.047 *1*	^{115}In(4.486 h)	
497.358 *24*	98	^{115}Sb(32.1 m)	489.27(1.3), 1236.52(0.58), 1633.72(0.352)
• 497.36 *12*	0.009 *4*	^{125}Sb(2.7582 y)	427.875(30), 600.600(17.86), 635.954(11.31)
497.383 *18*	6.7 *5*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
497.4 *5*	0.99 *13*	^{69}Se(27.4 s)	97.98(66), 66.4(24.8), 691.8(16.6)
• 497.47 *5*	0.13 *3*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
497.49 *15*	0.0061 *19*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
497.5 *3*	†2.3 *5*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
• 497.50 *15*	0.0139 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
497.5 *2*	†3.7 *1*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
497.6 *1*		^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
497.6 *2*	0.97 *17*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
497.60 *19*	1.8 *8*	^{186}Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
497.62 *10*	0.96 *9*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
497.7 *3*	0.13 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
497.7 *2*	†100 *14*	^{206}Rn(5.67 m)	324.5(†96), 386.6(†61), 773.1(†57)
• 497.768 *6*	0.036 *4*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
497.77 *10*	0.11 *6*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
497.77 *10*	†123 *9*	^{200}Au(18.7 h)	367.943(†123), 579.298(†121), 255.87(†119)
497.8 *6*	0.0022	^{104}Rh(42.3 s)	555.796(2.0), 1237.2(0.066), 767.72(0.011)
497.8 *6*	0.00012	^{104}Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
497.8 *6*	0.46	^{104}Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
• 497.8 *2*	0.0032	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
497.8 *2*	0.0015 *3*	^{239}Am(11.9 h)	277.599(15.0), 228.183(11.3), 209.753(3.50)
• 497.8 *2*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
• 497.81 *2*	0.045 *3*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
497.9 *2*	1.67 *9*	^{60}Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
497.9 *1*	3.9 *3*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
497.9 *3*	0.107 *13*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
497.9 *3*	0.22 *4*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
497.96 *9*	80	^{113}Sb(6.67 m)	332.41(14.8), 88.25(2.7), 940.63(2.62)
498 *1*	0.16 *7*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
498.0 *3*	0.72 *8*	^{100}Zr(7.1 s)	504.25(31), 400.48(19.2), 103.7(0.67)
498.0 *5*	0.007 *4*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
498.0 *3*	4.99 *16*	^{171}Re(15.2 s)	568.4(16.1), 102.0(9.7), 1066.0(8.1)
498.0 *4*	†1.1 *2*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
498		^{217}Ac(740 ns)	1105
498 *1*	0.6	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
498.0 *1*	0.062 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
498.0 *1*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
498.04 *20*	0.28 *4*	^{89}Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
498.06	0.010 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
498.2 *5*	0.045 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
498.2 *7*	0.32 *10*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
498.23 *16*	0.06 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
498.23 *16*	0.38 *4*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
498.25 *18*	0.105 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
498.262 *15*	5.7 *3*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
498.3 *5*	1.8 *8*	^{119}Cs(43.0 s)	176.05(29.7), 225.13(26), 257.9(17.4)
• 498.3 *3*	>0.049	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
498.3 *3*	25	^{124}Sb(93 s)	645.855(25), 602.730(25), 1101.0(0.50)
498.3 *2*	1.8 *5*	^{145}Ho(2.4 s)	339.8(15), 312.9(14.3), 334.1(13.5)
498.3 *2*	0.88 *10*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
498.4 *6*	0.8 *5*	^{102}Sr(69 ms)	243.80(53), 150.15(18.0), 93.89(13.4)
498.4 *3*	0.071 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
498.43 *78*	0.05 *3*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
498.45 *7*	1.25 *19*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
498.5 *6*	2.4 *8*	^{84}Se(3.1 m)	408.2(100)
498.5 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
498.59 *12*	0.152 *12*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
498.6 *4*	1.15 *20*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
498.6 *2*	0.113 *19*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
498.617 *15*	1.75 *4*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
498.62	0.036 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 498.62 *4*	0.093 *16*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
498.62 *5*	2.4 *3*	^{237}Pa(8.7 m)	853.6(34), 865.1(15.5), 529.26(14.9)
498.65 *14*	†25 *2*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
498.66 *12*	0.06 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
498.7 *1*		^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
498.7 *5*	0.25 *8*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
498.7 *4*	†0.7 *3*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
498.7 *15*	0.019 *5*	^{157}Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
498.7 *4*	0.13 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
498.7 *2*	0.45 *5*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
498.7 *6*	0.7	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
498.72 *8*	0.200 *20*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
• 498.75 *3*	0.103 *3*	^{171}Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
498.79 *3*	0.53 *5*	^{132}La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
• 498.80 *5*	0.071 *7*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
498.8 *5*	†8.6 *7*	^{195}Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
498.8 *1*	0.087 *11*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
• 498.8 *5*	0.001	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
• 498.8 *5*		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
• 498.88 *6*	0.066 *4*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
498.9		^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
498.9 *3*	†15 *5*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
498.9 *1*	†2.7 *5*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
• 498.90 *5*	0.040 *25*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
498.97 *3*	0.354 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
499.0 *5*		^{130}Pr(40.0 s)	951.9, 1405, 1282
499.0 *3*	13 *7*	^{146}Ho(3.6 s)	682.9(100), 925.3(69), 673.7(55)
499.0	>0.010	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
499.0 *2*	†4.4 *7*	^{225}Fr(4.0 m)	182.3(†100), 31.50(†91), 225.1(†55)
499.02 *4*	0.21	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
499.06 *7*	0.149 *10*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
499.08 *3*	0.34 *3*	^{182}Os(22.10 h)	510.056(52), 180.230(33.5), 263.285(6.71)
499.1 *3*	0.98 *24*	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
499.1 *5*	0.029 *12*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
499.2 *4*	0.017	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
499.2 *6*	0.142 *14*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
499.20 *12*	0.0014	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
499.26 *7*	0.77 *8*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
499.27 *14*	1.49 *16*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
499.3 *8*	0.4 *3*	^{86}Br(55.1 s)	1564.92(64), 2751.2(21.1), 1361.65(10.4)
499.3 *4*	2.0 *3*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
499.3 *5*	0.23 *3*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
499.3 *1*	1.41 *18*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
499.31 *10*	0.21 *6*	^{82}Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
499.34 *4*	0.46 *5*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
499.36 *6*	0.00018 *6*	^{135}La(19.5 h)	480.51(1.5), 874.51(0.164), 587.83(0.1108)
499.36 *16*	†19 *4*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
• 499.37 *5*	0.00093 *15*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
499.4 *10*	0.014	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
499.45 *5*	0.118 *5*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
499.45 *5*	0.0294 *18*	^{81}Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
499.5 *10*	0.038 *19*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
499.5 *10*	0.03 *3*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
499.5 *2*	†1.9 *4*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
499.5 *5*	0.14 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
499.5 *4*	0.97 *9*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
499.51 *17*	0.203 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
499.58 *25*	†0.54 *14*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
499.59 *12*	0.21 *5*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
499.6 *3*	0.20 *3*	^{63}Fe(6.1 s)	994.8(14.0), 1427.2(4.6), 1299.0(1.23)
499.6 *3*	0.47 *8*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
499.6 *7*	0.21 *9*	^{129}Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
499.60 *13*	0.40 *8*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
499.61 *20*	4.3	^{199}Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
• 499.63 *4*	0.062 *16*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
499.65 *5*	2.54 *20*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
499.66 *3*	1.47 *11*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
499.69 *27*	1.28 *17*	^{70}Se(41.1 m)	49.51(35.8), 426.15(29), 376.65(9.43)
499.7 *3*	17.9 *7*	^{96}Pd(122 s)	124.70(65), 762.3(50.0), 1098.7(17.3)
499.7 *2*	2.4 *3*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
499.74 *16*	†10.0 *14*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
499.77 *22*	†1.25 *21*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
499.8 *3*	0.0007	^{100}Tc(15.8 s)	539.59(7), 590.83(5.7), 1512.1(0.44)
499.8 *3*	0.14 *4*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
499.8		^{157}Lu(5.0 s)	967.5, 949.8, 880.5
• 499.83 *23*	0.023 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 499.876 *10*	3.624 *16*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 326.785(3.034)
499.9 *3*	0.14 *9*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
499.9 *2*	0.30 *7*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
499.9 *7*	0.98 *14*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
499.94 *5*	0.69 *6*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
499.941 *24*	0.291 *12*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
500.0 *5*	0.09 *3*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
500.0 *10*	0.6	^{151}Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
500.0 *1*	†4.9 *16*	^{177}Tm(85 s)	104.5(†11.1), 517.5(†22.2), 44.5(†10)
500.0 *3*	6.0 *7*	^{179}Yb(8.0 m)	592.1(75), 612.3(35.4), 381.4(9.6)
500.02 *6*	0.097 *7*	^{88}Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
500.10 *20*	0.55 *8*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
500.1 *8*	0.030 *10*	^{116}In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
500.1 *1*	0.37 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
500.1 *5*	0.28 *6*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 500.1 *5*	0.000168 *20*	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
500.154 *16*	0.141 *22*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
500.16 *26*	0.38 *7*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
500.20 *28*	0.30 *4*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
500.2 *1*	9.1 *8*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
500.22 *6*	0.362 *13*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
500.3 *3*	2.07 *15*	^{113}Rh(2.72 s)	189.7(17.0), 409.3(15.9), 219.6(3.88)
500.3 *3*	†38.6 *35*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 688.1(†33.3)
500.35 *2*	0.61 *6*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
• 500.35 *10*	8.8×10^{-6} *8*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
500.40 *10*	0.43 *4*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
500.4 *5*	0.012 *3*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
500.5 *2*	1.1 *3*	^{108}Sn(10.30 m)	396.44(64.3), 272.75(45.5), 669.08(22.6)
• 500.50 *15*	0.0099 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
500.6 *4*	1.0 *4*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
500.6 *5*	0.39 *9*	^{117}Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
500.6 *2*	0.014 *14*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
500.6 *3*	1.1 *4*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
500.6 *4*	0.048 *16*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
500.61 *10*	9.3 *6*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 1195.10(6.7)
• 500.7 *7*	0.017 *5*	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
500.7 *4*	1.55 *16*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
500.7 *10*	0.65 *10*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
500.7 *3*	0.081 *10*	^{183}Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
500.71 *14*	†1.38 *10*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
500.8	>0.13	^{230}Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
500.90 *10*	0.74 *9*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
500.9 *3*	1.7 *4*	^{178}Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
501.0	0.13	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
501.0 *5*	0.19	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
501.1 *5*	†1.3 *4*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
501.20 *9*	2.43 *14*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
501.2 *4*	0.27 *9*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
501.2 *3*	0.36 *5*	^{129}In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
501.2 *3*	0.28 *4*	^{237}Am(73.0 m)	280.23(47.3), 438.4(8.3), 473.5(4.3)
501.23 *21*	2.17 *19*	^{186}Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
• 501.312 *11*	6.72 *7*	^{148}Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 501.312 *11*	0.971 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
501.38 *8*	†6.75 *30*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
• 501.4	0.010 *6*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
501.4 *5*	†2.1 *4*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
501.4 *1*	0.9	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
• 501.4 *1*	0.0008 *3*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
501.43 *5*	6.3 *5*	^{126}In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
501.45 *4*	1.46 *10*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
501.48 *15*	0.08 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 501.5 *4*	0.012 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
501.6 *4*	0.15 *5*	^{73}Ga(4.86 h)	297.32(79.8), 325.70(11.17), 739.42(4.23)
501.6 *3*	0.05 *5*	^{127}In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
501.6 *3*	4.7	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
501.7 *1*	10.0 *6*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
501.7 *1*	†0.5 *2*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
501.7 *2*	0.047 *7*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
• 501.713 *7*	0.0115 *8*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
• 501.8 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
501.8 *3*	†3.8	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
501.8 *1*	†22.6 *23*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 166.2(†19.2)
501.8 *3*	†2.5 *4*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
501.8 *2*	†80 *4*	^{192}Bi(37 s)	853.8(†100.0), 504.3(†39), 565.4(†36)
501.90 *17*	0.35 *4*	^{81}Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
501.9 *2*	2.0 *4*	^{102}Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
501.9	†26	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
501.94 *6*	0.84 *8*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
501.96 *19*	†3.5 *7*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
501.97 *12*	1.6 *3*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
501.98 *12*	0.122 *7*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
502.0 *3*	†12 *2*	^{73}Cu(3.9 s)	449.7(†100), 199.2(†17), 306.8(†10)
502		^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
502.0 *8*	0.13 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
502.0 *2*	0.0036 *8*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
502.0 *1*	0.027 *8*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
502.04 *9*	0.20 *5*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
• 502.06 *5*	†0.213 *16*	^{52}Mn(5.591 d)	1434.068(†100.0), 935.538(†94.9), 744.233(†90.6)
502.1 *5*	26.5 *22*	^{196}Pb(37 m)	253.1(27.0), 366.5(11.1), 191.7(11.1)
502.2 *5*	0.20 *4*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
502.2 *6*	0.017 *4*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
502.3	0.14	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
502.4 *7*	0.61 *6*	^{75}Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
502.4 *3*	0.81 *8*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
502.41 *15*	†20.5 *24*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
502.46 *4*	0.23 *9*	^{174}Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
502.5	0.6	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
502.5 *1*	0.0160 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
502.5 *3*	0.27 *6*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
502.53 *7*	3.38 *10*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 502.53 *7*	1.25 *7*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
502.53 *7*	92.31 *4*	^{190}Ir(3.25 h)	616.08(93.10), 361.136(89.57), 186.718(66.3)
502.6 *8*	4.3 *6*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
502.6 *3*	1.9 *4*	^{130}Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
502.7 *5*	0.00004	^{255}Fm(20.07 h)	81.477(0.81), 58.477(0.67), 80.92(0.27)
• 502.8 *6*	0.8 *3*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
502.8	0.24 *9*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 502.8 *3*	0.138 *21*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 502.82 *25*	0.050 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
502.90 *20*	0.69 *6*	^{91}Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
502.90 *20*	51.4 *22*	^{91}Tc(3.3 m)	927.60(3.79), 1328.40(2.55), 1362.00(2.5)
502.9 *6*	0.63 *21*	^{121}Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
502.9 *3*	0.13 *6*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
502.9 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
502.91 *3*	60 *4*	^{88}Nb(14.5 m)	1082.53(103), 1057.01(100), 671.20(64)
502.94 *9*	†4.3 *3*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
502.95 *6*	0.350 *25*	^{146}La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
502.95 *6*	26	^{146}La(10.0 s)	258.47(93), 409.86(81), 514.75(31)
503.0 *4*	0.09 *3*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
503.0 *1*	0.72 *17*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
503.00 *6*	1.01 *6*	^{146}Ce(13.52 m)	316.74(56), 218.23(20.8), 264.56(9.0)
503.0 *5*	1.12 *10*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
503 *1*		^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
• 503.0		^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
• 503.004 *4*	0.360 *3*	^{131}I(8.02070 d)	364.489(81.7), 636.989(7.17), 284.305(6.14)
503.08 *7*	0.084 *9*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
503.1 *2*	9 *3*	^{73}Kr(27.0 s)	177.8(65.8), 62.5(19.1), 454.8(15)
503.15 *20*	0.11 *3*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
503.17 *2*	0.26 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
503.26 *6*	2.16 *11*	^{79}Ge(19.1 s)	109.58(21), 1505.85(9.2), 100.48(2.70)
503.3 *2*	0.6	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
• 503.30 *4*	0.008 *5*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
503.33 *10*	0.168 *9*	^{207}Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
503.37 *20*	0.3 *1*	^{156}Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
• 503.387 *5*	0.1522 *21*	^{152}Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
503.387 *5*	†1.4 *6*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
503.4 *3*	0.17 *4*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
503.4 *5*	0.037 *16*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
503.40 *13*	0.49 *13*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
503.44 *6*	0.43 *8*	^{231}Ac(7.5 m)	282.471(39.0), 307.063(30.4), 221.399(16.8)
503.5	0.9	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
503.5 *2*	0.84 *6*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
503.5 *2*	0.14 *3*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
503.5 *2*	0.030 *10*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
503.5 *2*		^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 503.5 *2*	0.066 *11*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
• 503.5 *2*	0.071 *11*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
• 503.5 *2*	0.95×10^{-6}	^{234}U(2.455×10^5 y)	53.20(0.123), 120.90(0.0342), 454.95(0.000025)
503.56 *3*	0.354 *18*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
503.7 *2*	0.42 *4*	^{78}As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
503.7 *2*	†0.7 *2*	^{136}Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
• 503.7 *7*	0.0045 *22*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
503.8 *1*	1.74 *9*	^{94}Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
503.8 *1*	0.09	^{95}Rb(377.5 ms)	836.9(2.9), 1089.4(0.14), 1309.1(0.12)
503.8 *3*	0.010 *6*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
503.8 *4*	0.38 *6*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
• 503.8 *5*	2.0×10^{-5} *2*	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
503.823 *13*	0.186 *8*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
• 503.823 *13*	1.45×10^{-5} *8*	^{232}U(68.9 y)	57.762(0.200), 129.065(0.0686), 270.243(0.00316)
503.9 *1*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
503.9 *3*	0.09 *3*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
• 503.9 *2*	$\dagger7.5\times10^5$ *14*	^{237}Pu(45.2 d)	280.40(†870000), 298.89(†7.85×10^6), 320.75(†6.48×10^6)
503.92 *20*	0.21 *4*	^{126}In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
503.94 *6*	0.0701 *16*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 503.977 *12*	0.00078	^{239}Np(2.3565 d)	106.125(27.2), 277.599(14.38), 228.183(10.76)
503.977 *12*	0.0140 *14*	^{239}Am(11.9 h)	277.599(15.0), 228.183(11.3), 209.753(3.50)
504.0 *3*	0.10	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
504.0 *3*	†20.7 *24*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
504.10 *15*	0.00109 *25*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
504.13 *12*	0.0058 *8*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
504.2 *4*	0.13 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
504.2 *1*	23.3 *14*	^{188}Tl(71 s)	412.7(88), 592.0(61), 772.3(11.9)
504.23 *22*	0.28 *5*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
504.25 *4*	31 *4*	^{100}Zr(7.1 s)	400.48(19.2), 498.0(0.72), 103.7(0.67)
504.25 *15*	0.070 *6*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 504.28 *5*	0.17 *5*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
504.30 *21*	0.25 *9*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
504.3 *2*	18.62 *11*	^{148}Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 1677.3(17.4)
504.3 *2*	†39 *3*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 565.4(†36)
• 504.36 *4*	0.248 *22*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
504.40 *20*	†15.1 *17*	^{106}Mo(8.4 s)	465.70(†100), 54.00(†54), 618.60(†25)
504.4 *2*	0.48 *15*	^{151}Tb(25 s)	379.39(5.9), 830.81(3.10), 522.77(1.43)
504.45 *10*	60	^{85}Y(2.68 h)	231.67(84), 913.93(9.0), 409.5(0.84)
504.45 *10*	1.51 *6*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
• 504.45 *3*	0.59 *4*	^{241}Cm(32.8 d)	471.805(71), 430.634(4.06), 132.413(3.86)
• 504.45 *3*		^{245}Bk(4.94 d)	205.879(0.040), 471.805(0.026), 164.8(0.0084)
504.5 *5*	0.40 *13*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
504.5 *5*	0.27 *8*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
• 504.57 *7*	0.138 *5*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
504.6 *3*		^{131}Sn(56.0 s)	3267.5, 2470.5, 2039.25
504.6 *3*		^{131}Sn(58.4 s)	367.40, 285.0, 62.9
504.6 *3*	†2.9 *9*	^{131}Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
504.65 *16*	0.00058 *21*	^{145}Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
• 504.67 *25*	0.050 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
504.7 *5*	0.10 *3*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
504.7 *1*	5	^{104}Zr(1.2 s)	100.9(6), 445.0(5), 263.7(4.1)
504.7 *4*	3.7	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
504.70 *20*	0.45 *11*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
504.73 *8*	0.51 *12*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
504.77 *4*	0.0042	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 504.795 *11*	0.0090 *18*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
504.8 *5*	0.041 *6*	^{233}Np(36.2 m)	312.17(0.7), 298.89(0.44), 546.9(0.280)
504.8 *3*	0.19 *4*	^{237}Am(73.0 m)	280.23(47.3), 438.4(8.3), 473.5(4.3)
504.87 *21*	†2.44 *20*	^{162}Lu(1.37 m)	166.82(†100), 631.87(†26.6), 798.76(†16.9)
504.878 *14*	1.17 *6*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
504.9 *3*	13	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
504.9 *3*	1.50 *14*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
504.9 *4*	0.21 *5*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
505.0 *5*	0.229 *15*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
505.0 *4*	0.13 *4*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
505 *1*	0.13	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
505.05 *18*	1.2 *6*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
505.07 *8*	0.358 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
505.09 *8*	0.229 *20*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
505.1 *3*	0.12 *5*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
505.1 *2*	9.6 *13*	^{102}Cd(5.5 m)	481.0(63), 1036.6(12.8), 414.8(7.6)
505.1 *1*	†7.8 *7*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
505.1 *3*	9.0 *13*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
• 505.121 *11*	0.093 *3*	^{147}Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
505.16 *13*	0.146 *21*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
505.2 *2*	1.7	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
505.3 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
505.33 *5*	0.316 *10*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
505.4 *1*	10.6 *5*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
505.4 *3*	0.011 *3*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
505.4 *1*	1.8 *4*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
• 505.40 *3*	0.138 *21*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
505.480 *2*	0.084 *16*	^{199}Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
505.5 *2*	9.0 *17*	^{129}Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
505.5 *3*	0.24 *12*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
505.5 *6*	0.0049	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
505.51 *7*	11.9 *4*	^{107}In(32.4 m)	204.97(47), 320.92(10.2), 1268.33(5.43)
• 505.521 *25*	4.80 *10*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 505.590 *9*	0.045 *3*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
505.61 *13*	0.0121 *22*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
505.64 *15*	0.141 *24*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
505.66 *20*	0.096 *17*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
505.79 *3*	4.93 *20*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
• 505.79 *3*	0.73 *5*	^{132}Cs(6.479 d)	667.718(98), 630.19(0.95), 1317.927(0.585)
505.8 *3*	†1.5	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
505.8 *3*	†0.6 *4*	^{194}Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
505.9 *2*	71	^{120}Ag(1.23 s)	697.8(30), 817.1(11), 1323.1(9)
505.9 *2*	†51	^{120}Ag(0.32 s)	697.8(†51), 925.8(†36), 830.0(†15)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
505.92 *8*	0.053 *4*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
506.0 *2*	2.1 *5*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
506.0 *10*	7.0 *18*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
• 506.0 *10*	0.05 *3*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
506.00 *19*	1.05 *10*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
• 506.093 *10*	0.00012 *3*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 506.093 *10*	0.558 *13*	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
506.1 *1*	100	^{62}Fe(68 s)	
506.10 *20*	0.20 *10*	^{102}Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
• 506.1 *4*	0.0019 *5*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
506.16 *10*	0.63 *5*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
506.2	0.17 *3*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
506.2 *5*	†92 *15*	^{190}Bi(6.3 s)	773.8(†100), 455.0(†94), 846.4(†70)
506.3 *2*	†89 *6*	^{202}Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)
506.4 *1*	†54 *6*	^{171}Ta(23.3 m)	49.6(†100), 501.8(†22.6), 166.2(†19.2)
506.4		^{199}Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
506.42 *2*	0.012 *12*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
506.43 *3*	0.081 *12*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
• 506.44 *4*	0.0063 *11*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
506.44 *4*	0.61 *12*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
506.44 *4*	4.0 *5*	^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
506.5 *5*	0.154 *21*	^{233}Np(36.2 m)	312.17(0.7), 298.89(0.44), 546.9(0.280)
506.592 *9*	19.1 *13*	^{91}Kr(8.57 s)	108.788(43.5), 612.87(7.7), 1108.68(7.2)
• 506.6 *10*	0.09	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
506.6 *3*	0.58 *11*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
506.6 *5*	0.030 *20*	^{223}Ac(2.10 m)	98.58(0.891), 191.3(0.58), 83.55(0.57)
• 506.68 *16*	0.00085 *6*	^{161}Tb(6.88 d)	25.65150(23.2), 48.91562(17.0), 74.56711(10.2)
506.7 *1*	0.043 *3*	^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
506.7 *3*	2.0 *4*	^{130}Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
506.75 *5*	1.29 *8*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 506.8 *2*	0.116 *20*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
506.8 *4*	0.0227 *20*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
506.8 *4*	†4.30 *24*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
506.8 *2*	0.685 *20*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
506.9 *10*	0.04 *3*	^{111}Ag(64.8 s)	245.422(0.50), 620.3(0.121), 171.28(0.12)
506.9 *5*	0.18 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
506.9 *6*		^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
506.9 *1*	0.0024 *9*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
507.0 *5*	<0.18	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
507 *1*	†5.0	^{138}Eu(12.1 s)	346.6(†100), 544.2(†55), 685.4(†41)
507.0 *4*	†40	^{155}Tm(45 s)	88.1(†100), 323.2(†65), 247.0(†28)
507.0 *2*	0.68 *7*	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
507.10 *5*	0.067 *3*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 507.13 *15*	0.112 *16*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 507.188 *10*	†0.97 *3*	^{136}Cs(13.16 d)	818.514(†100), 1048.073(†80), 340.547(†42.3)
507.2 *7*	†4.0 *6*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
507.2 *3*		^{119}Pd(0.92 s)	129.9(†100), 256.6(†63), 326.1(†52)
507.2 *3*	0.44 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
507.2 *8*	0.33 *4*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
507.2 *2*	0.40 *7*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
507.2 *1*	1.67 *8*	^{240}Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
507.2 *1*	0.70 *9*	^{240}Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 507.2 *1*	0.072 *6*	^{240}Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 507.2 *1*	7.8×10^{-6} *24*	^{244}Cm(18.10 y)	42.824(.0044100), 98.860(.0001470), 152.63(<4.9×10^{-7})
507.25 *25*	5.5 *11*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
• 507.27 *14*	0.047 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
507.3 *4*	1.49 *18*	^{115}Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
507.3 *2*	0.96 *10*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
507.3 *1*	0.137 *19*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
507.3 *2*	0.089 *18*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
507.3 *2*	†100 *7*	^{198}Ir(8 s)	407.21(†76)
507.3 *7*	0.66 *7*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
507.3 *3*	0.040 *10*	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
• 507.36 *6*	0.00026 *2*	^{115}Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
507.4 *3*	1.4 *4*	^{81}Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
507.4 *7*	85 *7*	^{89}Nb(1.18 h)	587.83(100), 769.69(6.5), 1277.5(1.6)
507.4 *7*	0.95 *14*	^{89}Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
507.4 *1*	0.052 *12*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
507.4 *2*	0.047 *18*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
507.4 *4*	>0.17	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
• 507.4 *3*	†0.025 *5*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
507.47 *3*	4.6 *5*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
507.5 *10*	†1.56×10^{3} *15*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
507.56 *8*	1.32 *18*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
• 507.591 *11*	17.7 *4*	^{121}Te(16.78 d)	573.139(80.3), 470.472(1.41), 65.548(0.259)
507.60 *10*	14.8 *8*	^{62}Zn(9.186 h)	596.56(26), 40.84(25.5), 548.35(15.3)
507.6 *2*	2.1 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
507.6 *3*		^{140}Tb(2.4 s)	328.6(†104), 627.8(†54)
507.6 *3*		^{141}Dy(0.9 s)	328.6
507.6 *4*	0.12 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
507.6 *2*	0.29 *6*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
507.64 *8*	5.03 *19*	^{97}Zr(16.91 h)	743.36(93), 1147.97(2.61), 355.40(2.09)
507.7 *2*	0.46 *9*	^{125}In(2.36 s)	1335.04(71), 1031.75(9.6), 617.88(7.4)
507.79 *15*	1.4	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
507.8 *2*	0.06 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
507.8 *3*	1.05 *18*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
507.80 *20*	0.054 *11*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 507.8 *3*	1.5×10^{-6} *8*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
507.8 *3*	†6.6 *19*	^{195}Pb(15 m)	883.1(†100), 393.7(†42), 871.0(†36)
507.84 *2*	1.020 *12*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
507.84 *12*	0.093 *13*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
507.9 *1*	0.293 *5*	^{65}Ni(2.5172 h)	1481.84(24), 1115.546(15.43), 366.27(4.81)
507.92 *12*	0.126 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
508.0 *3*	0.062 *19*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
508.0 *2*	0.461 *24*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
508 *1*	1.27 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
508 *1*	0.025 *12*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 508 *1*	0.22 *11*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
508.1 *5*	1.35 *25*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
• 508.1 *1*	0.071 *6*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
508.2 *6*	0.034 *14*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
508.2 *2*	†0.61 *20*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
508.20	0.16	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
508.20 *10*	5.15 *16*	^{230}Ac(122 s)	454.95(8), 1243.9(3.50), 1347.7(1.57)
• 508.20 *10*	3.6 *3*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
• 508.20 *10*	0.000015 *4*	^{234}U(2.455×10^{5} y)	53.20(0.123), 120.90(0.0342), 454.95(0.000025)
508.26 *20*	0.055 *15*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
508.3 *2*	†6.3×10^3 *6*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
508.36 *23*	0.20 *12*	^{181}Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
508.4 *5*	9	^{150}Tm(2.2 s)	1578.9(91), 474.5(86), 207.6(82)
508.4 *1*	†93 *6*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
508.4		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
508.44 *4*	1.19 *5*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
508.5 *3*	4.7 *11*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
508.5 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
508.6 *1*	†18 *2*	^{227}Rn(22.5 s)	162.14(†100), 739.2(†65), 686.2(†62)
508.6 *2*	†3.0 *10*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
508.7		^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
508.7 *4*	†5	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
508.76 *11*		^{144}Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
508.8 *5*	0.0228 *18*	^{142}Pr(19.12 h)	1575.85(3.7)
• 508.87 *8*	0.174 *25*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
508.959 *18*	0.47 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
• 509.0 *7*	0.0013	^{111}Ag(7.45 d)	342.118(7), 245.422(1.24), 96.73(0.20)
509.0 *4*	1.5 *3*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
509.0 *5*		^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
509.0 *5*		^{141}Gd(14 s)	215.8(54), 525.9(17), 336.2(17.1)
509.00 *20*	0.145 *17*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
509.1 *5*	0.15 *4*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
509.1 *6*	0.209 *25*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
• 509.11 *15*	0.00232 *21*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
509.14 *25*	†21	^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
509.2 *3*	1.6 *3*	^{165}Tb(2.11 m)	1178.53(13.2), 538.51(7.2), 1292.05(7.0)
509.2 *8*	†2.1×10^3 *3*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
509.4	>0.28	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
509.4 *2*	†5.8 *5*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
509.43 *6*	0.7 *4*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
509.5	0.043	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
509.6 *5*	0.17 *3*	^{91}Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
509.6		^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
509.6 *2*	0.84 *12*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
509.7 *4*	0.78 *16*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
509.7 *3*	0.17 *4*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
• 509.7 *2*	0.00025 *10*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
509.9 *3*	0.68 *10*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
510	0.296 *9*	^{73}Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
510	0.14	^{73}Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
510.0 *2*		^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
• 510.0 *2*	0.0012 *3*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
510.056 *10*	52	^{182}Os(22.10 h)	180.230(33.5), 263.285(6.71), 55.506(5.8)
• 510.07 *2*	0.125 *10*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 510.07 *3*	0.125 *10*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
510.1 *5*	0.12 *4*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
510.1 *2*	>0.0035	^{108}Ag(2.37 m)	433.937(0.50), 618.84(0.261), 1007.22(0.0139)
• 510.1 *7*	0.009 *4*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
510.14 *14*	0.98 *8*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
510.17 *12*	43 *3*	^{83}Se(22.3 m)	356.687(70), 224.8(32.7), 718.10(15.0)
510.17 *12*	0.21 *7*	^{83}Se(70.1 s)	1030.86(21.2), 356.687(18), 987.96(16.1)
510.296 *3*	0.0123 *15*	^{155}Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
510.3 *4*	0.31 *10*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
510.3	0.14 *5*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
510.30 *5*	0.062 *16*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
510.3 *7*	1.4 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
510.31 *9*	5.3 *9*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 456.76(3.02)
510.35 *3*	0.85 *3*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
510.35 *3*	0.0036 *5*	^{130}I(9.0 m)	536.09(16), 586.05(1.07), 1614.10(0.447)
510.35 *3*		^{130}Cs(3.46 m)	536.09(†100), 470.8(†8.6), 206.6(†1.7)
510.36 *7*	20.7 *5*	^{133}Ce(4.9 h)	477.22(39), 58.39(19.2), 130.803(17.9)
510.50 *10*	0.125 *19*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
510.50 *20*	1.13 *9*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
510.530 *11*	1.83 *4*	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
• 510.6	0.060 *7*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
510.65 *15*	3.7 *21*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
510.7 *2*		^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
510.71 *16*	2.12 *24*	^{142}Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
510.73 *8*	8.5 *5*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 1211.28(6.1)
510.73 *10*	0.43 *6*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
510.77 *10*	22.6 *3*	^{208}Tl(3.053 m)	2614.533(99), 583.191(84.5), 860.564(12.42)
510.78 *14*	0.069 *10*	^{87}Kr(76.3 m)	402.586(49.6), 2554.8(9.2), 845.43(7.34)
510.8	>0.009	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
510.82 *18*	37.5 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 737.86(29)
510.9 *3*	0.10	^{113}Pd(93 s)	95.74(3.3), 643.7(3.0), 739.63(2.4)
510.9 *3*	0.21	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
510.9 *3*	8.4 *15*	^{194}Tl(32.8 m)	636.5(99), 428.0(99), 748.9(76)
510.90 *10*		^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
511 *2*	0.8	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
511.0 *2*	0.32 *7*	^{108}Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
511	0.52	^{149}Ho(21.1 s)	1090.7(74.8), 1073.2(6.37), 1583.6(4.48)
511		^{150}Tb(5.8 m)	638.05(100), 650.4(70), 438.37(42)
• 511.00 *25*	0.062 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
511.0 *2*	†15 *7*	^{155}Er(5.3 m)	110.12(†100), 241.5(†65), 234.0(†40.0)
511		^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
511.0 *1*	†20.6 *10*	^{169}Ta(4.9 m)	28.80(†18.3), 192.4(†8), 153.5(†6.3)
511 *1*	2.3 *5*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
511.0 *3*	1.05 *16*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
511.00	0.31	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
511.0 *4*	0.03 *1*	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
• 511 *2*	0.076	^{222}Rn(3.8235 d)	
511		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
511.1 *5*		^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
511.1 *9*	0.55 *10*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
511.28 *5*	0.112 *19*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
• 511.36 *5*	24.1 *5*	^{206}Po(8.8 d)	1032.26(32.9), 286.410(23.8), 807.38(22.7)
511.4 *4*	†6 *4*	^{106}Nb(1.02 s)	171.548(†100), 350.70(†39), 714.00(†30)
511.4	0.48 *16*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
511.5 *10*	0.034 *17*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
• 511.52 *3*	0.855 *16*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
511.56 *4*	32	^{71}Zn(2.45 m)	910.27(7.8), 389.88(3.8), 121.51(3.0)
511.56 *4*	28.4 *19*	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
511.6 *3*	0.14 *4*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
511.7 *5*	0.03 *2*	^{107}Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
511.7 *3*	>1.4	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
511.765 *19*	0.647 *14*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
511.842 *28*	20	^{106}Rh(29.80 s)	621.94(9.93), 1050.39(1.56), 616.174(0.75)
511.842 *28*	85 *4*	^{106}Rh(131 m)	1045.83(30.4), 717.24(28.9), 450.97(24.2)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
511.842 *28*	17.0 *4*	^{106}Ag(23.96 m)	621.94(0.316), 873.48(0.199), 1050.39(0.167)
• 511.842 *28*	88 *3*	^{106}Ag(8.28 d)	1045.83(29.6), 717.24(28.9), 450.97(28.2)
511.9 *4*	0.50 *10*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
511.9	0.45 *4*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
511.9 *3*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
512 *1*	1.2 *4*	^{45}K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
512 *2*	2.0 *8*	^{72}Br(78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
512 *1*	0.56 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
512 *1*	7	^{104}Sn(20.8 s)	132.7(56), 912.6(42), 401.2(16.2)
512.0 *4*	3.8 *6*	^{122}Cs(21.0 s)	331.1(48), 817.9(3.09), 843.0(1.90)
512.0 *4*	8.7 *12*	^{122}Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
512 *5*	0.41 *8*	^{123}Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
512.0 *10*		^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
512.0 *5*	0.16 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
512.00 *20*	1.80 *9*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 512.0	0.032 *7*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
512.2 *2*	†37 *7*	^{155}Er(5.3 m)	110.12(†100), 241.5(†65), 234.0(†40.0)
512.21 *7*	0.83 *18*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
512.3 *2*	0.40 *4*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 512.3 *3*	0.0016 *8*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
512.33 *18*	†<9	^{182}Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
512.33 *17*	†38 *10*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
512.4 *2*	0.47 *8*	^{231}Ac(7.5 m)	282.471(39.0), 307.063(30.4), 221.399(16.8)
512.4 *3*	†12.8 *28*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
512.42 *16*		^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
512.5 *5*	0.54 *11*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 512.5 *4*	0.022 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
512.5 *5*		^{170}Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
• 512.5 *3*	†1.15×10^4 *23*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 512.54 *5*	0.196 *14*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
512.54 *12*	2.4 *4*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
512.57 *25*	0.0032 *7*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
512.60 *7*	0.18 *5*	^{100}Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
512.61 *8*	0.18 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
512.7	0.31	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
512.7	0.013 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
512.83 *5*	1.75 *11*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
• 512.918 *7*	0.00128 *20*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
513.0 *2*	†4	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
513.1 *4*	2.1 *6*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
513.1 *1*	1.48 *25*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
513.1 *2*	0.92 *10*	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
513.2 *2*	0.20 *5*	^{100}Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
513.39 *10*	76	^{116}Ag(2.68 m)	2478.5(12), 699.58(11), 1213.17(7)
513.39 *10*	92	^{116}Ag(10.4 s)	705.82(61), 1028.90(30.4), 708.80(20)
513.4 *4*	0.020	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
513.4 *1*	0.8	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
513.4 *1*	0.38	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
513.41 *18*	0.55 *5*	^{97}Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
513.47 *5*	†4.5 *5*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
513.47 *5*	2.13 *21*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
513.5 *3*	†0.8	^{111}Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
513.6 *4*	1.6	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
513.6 *2*	†60 *9*	^{160}Eu(38 s)	173.19(†100), 412.56(†56), 822.04(†49)
513.6 *3*	0.028 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
513.6 *3*	0.26 *5*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
• 513.627 *14*	0.08	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
513.73 *10*	0.20 *5*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
• 513.73 *20*	0.047 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 513.735 *14*	0.241 *18*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
513.8	0.28	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
513.8 *4*	>1.0	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
513.88 *11*	0.84 *8*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
513.9 *4*	0.27 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
514.0 *5*	0.09 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
514.0 *3*	†13.2 *23*	^{105}Nb(2.95 s)	94.8(†100), 246.9(†79), 309.9(†41.9)
514.0 *2*	1.08 *11*	^{137}Pr(1.28 h)	836.7(1.8), 433.9(1.28), 160.32(0.97)
514.0 *20*	0.007 *2*	^{145}Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
• 514.0 *5*		^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
• 514.0 *5*	†2.6×10^4 *3*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 514.0067 *19*	0.43	^{85}Kr(10.756 y)	362.81(2.2×10^{-6}), 151.159(2.2×10^{-6}), 129.820(>4.3×10^{-7})
• 514.0067 *19*	96	^{85}Sr(64.84 d)	868.5(0.0120), 151.159(0.0012), 362.81(>0.0010)
514.1 *4*	0.81 *8*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
514.1	>0.032	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
514.1 *3*	0.0007	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
514.2 *5*	†3.8 *7*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
514.38 *9*	0.17 *3*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
514.400 *30*	2.21 *13*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
514.4 *1*	†1.13 *3*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
• 514.4	7.0×10^{-6}	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
514.42 *9*	1.62 *24*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
514.42 *6*	0.294 *24*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 514.46 *19*	0.0114 *15*	^{103}Ru(39.26 d)	497.080(90.9), 610.33(5.75), 443.799(3.27)
514.50 *20*	0.163 *17*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
514.6 *3*	†31 *3*	^{109}Tc(0.87 s)	194.6(†100), 128.7(†51), 96.2(†48)
514.6 *2*	0.17 *3*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
514.7 *1*	0.46 *4*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
514.7 *4*	0.14 *5*	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
514.7 *9*	0.36 *5*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
514.75 *7*	0.427 *25*	^{146}La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
514.75 *7*	31	^{146}La(10.0 s)	258.47(93), 409.86(81), 502.95(26)
514.78 *13*	0.19 *6*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
514.79 *4*	0.086 *4*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
514.8 *1*		^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
514.80 *6*	0.0052 *4*	^{188}Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 514.80 *6*	0.131 *13*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
514.8 *2*	†1.7 *1*	^{200}At(43 s)	665.9(†100), 611.1(†85.0), 484.5(†49.8)
514.8 *2*	1.9 *3*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
514.868 *7*	65 *5*	^{175}Tm(15.2 m)	941.23(15), 363.942(12.7), 982.45(10.2)
• 514.95 *10*	0.0111 *20*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
514.952 *45*	1.04 *10*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
515		^{41}Cl(38.4 s)	1353, 834, 1354.0
515.0 *10*	0.021 *8*	^{63}Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
515.0 *5*	0.63 *4*	^{123}Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
515.0	25	^{142}Tb(597 ms)	465.0(2.7), 853.1(2.42), 1399.2(2.39)
515 *1*	0.56 *23*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
515.012 *16*	0.84 *4*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 515.05 *7*	0.00010 *4*	^{115}Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
515.06 *12*	0.38 *5*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
515.06 *10*	0.050 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
515.07 *7*	0.23 *23*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
• 515.104 *6*	0.00414 *7*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
515.18 *20*	4.89 *14*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
515.2 *4*	0.41 *17*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
515.2 *5*	1.4 *7*	^{196}Pb(37 m)	253.1(27.0), 502.1(26.5), 366.5(11.1)
515.2 *2*	0.17 *4*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
515.3 *2*	0.23 *7*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
515.4 *2*	0.5	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
515.4 *2*	>0.5	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
515.4	>1.1	^{149}Er(8.9 s)	1171.0(9.4), 171.5(6.5), 343.9(6.3)
515.4 *12*	1.4 *6*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
515.4 *12*	1.2 *5*	^{190}Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
• 515.40 *5*	0.0196 *22*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
515.43 *8*	0.51 *8*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
515.43 *14*	3.91 *21*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
515.44 *14*	0.370 *11*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
515.467 *25*	0.0381 *19*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
515.467 *25*	1.53 *5*	^{165}Dy(1.257 m)	361.68(0.534), 153.803(0.242), 95.931(0.039)
• 515.5 *2*	0.043 *2*	^{238}Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
515.5 *2*	0.39 *4*	^{238}Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 515.5 *2*	4.5×10^{-6} *15*	^{242}Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
• 515.6 *4*	0.0003 *3*	^{95}Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
515.6 *5*	0.14 *4*	^{136}Sm(47 s)	114.4(36), 747.7(5.4), 485.3(5.0)
515.6 *3*	1.9 *3*	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
515.6 *1*	0.0015 *1*	^{222}Ra(38.0 s)	324.22(2.77), 328.9(0.0043), 472.5(0.0040)
• 515.607 *9*	5.52 *19*	^{232}Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
• 515.607 *9*	0.00017	^{236}Pu(2.858 y)	47.574(0.066), 108.96(0.012), 166.0(0.00066)
515.62 *7*	0.43 *4*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
• 515.65 *8*	0.989 *19*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
515.67 *19*	0.16 *5*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
515.69 *8*	0.361 *16*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
515.7 *2*	†4.8 *7*	^{153}Yb(4.2 s)	547.4(†100), 674.1(†61), 369.6(†32)
515.75 *9*	0.036 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
515.78 *9*	5.0 *5*	^{132}La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
515.78 *9*	7	^{132}La(24.3 m)	464.55(22), 663.07(11.6), 285.6(7)
515.78 *16*	0.315 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
515.79 *20*	0.20 *4*	^{126}In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
515.79 *20*	1.0 *2*	^{126}In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
515.86 *7*	0.060 *5*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
515.9 *5*	0.11 *7*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
515.9 *1*	$\dagger1.28\times10^{4}$ *22*	^{158}Er(2.29 h)	71.91(†23300), 386.84(†111000), 248.58(†42000)
• 515.95 *23*	0.029 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
516.0		^{41}Cl(38.4 s)	1353, 834, 515
516.00 *20*	0.054 *12*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
516.04 *12*	1.29 *9*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
516.071 *15*	0.0073 *5*	^{145}Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
516.10 *25*	0.108 *13*	^{101}Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
516.1 *1*	0.139 *25*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
516.15 *7*	0.47	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
• 516.18 *4*	40.7 *4*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 1718.70(31.8)
516.2 *4*	0.30 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
516.2		^{157}Lu(5.0 s)	967.5, 949.8, 880.5
516.2 *2*	1.4	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
• 516.2 *2*	0.0010 *3*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
516.21 *15*	0.080 *13*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
516.23 *25*	†5	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
• 516.25 *6*	0.194 *14*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
516.28 *20*	0.68 *19*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
516.30 *14*	2.98 *21*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
516.3 *4*	0.86 *9*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 516.3 *4*	0.0024 *12*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
516.30 *5*	0.228 *16*	^{226}Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
516.318 *10*	90 *3*	^{204}At(9.2 m)	684.341(95), 426.253(67.5), 609.13(24.6)
516.4 *3*	0.19 *4*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
516.4 *6*	0.013	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
516.4 *3*	0.0036 *6*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 516.4 *3*	†0.0114 *24*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
516.41 *7*	21.5 *15*	^{79}Ga(2.847 s)	464.79(24.2), 1187.28(12.8), 2140.20(7.0)
• 516.545 *2*	2.69 *3*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
516.57 *6*	3.4 *3*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
516.59 *20*	0.30 *4*	^{184}Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 516.6 *10*	0.031 *10*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
516.60 *6*	†13 *3*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 516.60 *6*	0.313 *19*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
516.60 *13*	0.0099 *25*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
516.69 *2*	1.24 *8*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
516.7 *3*	0.18 *5*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
516.7 *5*	†2.14 *18*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
516.74 *12*	0.43 *5*	^{138}Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
516.74 *12*	0.61 *19*	^{138}Cs(2.91 m)	1435.795(19), 462.796(18.6), 191.96(15.4)
516.78 *5*	0.71 *4*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
• 516.793 *14*	0.423 *14*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
516.9 *4*	0.24 *12*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
516.9 *3*	†1.4 *3*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
517.00 *8*	0.035 *10*	^{88}Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
517.0 *3*	0.40 *7*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
517.0 *3*	0.83 *8*	^{201}Au(26 m)	542.6(1.2), 613.2(0.77), 167.43(0.64)
517.0 *4*	0.0068	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
517.055 *20*	6.0 *6*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
517.07 *15*	0.51 *8*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
517.1 *3*	0.11 *5*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
517.1 *6*	†2.8 *6*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
• 517.2	0.0004	^{235}U(7.038×10^{8} y)	185.712(57.2), 143.764(10.96), 163.358(5.08)
517.24 *2*	0.198 *20*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
• 517.29 *10*	0.040 *7*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
517.3 *4*	2.4 *5*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
517.3 *3*	0.26 *7*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
517.3 *1*	†1.0 *3*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
517.4	1.1	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
517.4 *4*	0.032 *16*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
517.4	0.22	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
517.44 *4*	4.80 *20*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
517.5 *3*	0.10 *3*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
• 517.5 *4*	0.0014 *5*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
517.5 *1*	4.5 *5*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
517.5 *5*	†22.2 *22*	^{177}Tm(85 s)	104.5(†11.1), 44.5(†10), 589.0(†8.9)
517.6 *5*	†0.48 *7*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
517.62 *5*	0.076 *12*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
517.63 *6*	†1.9 *3*	^{215}Bi(7.6 m)	293.54(†100), 271.23(†5.5), 833(†1.4)
517.63 *6*	0.0443 *22*	^{219}Rn(3.96 s)	271.23(10.8), 401.81(6.37), 130.59(0.119)
517.7 *7*	0.16 *10*	^{90}Mo(5.67 h)	257.34(78), 122.370(64.2), 203.13(6.4)
517.71 *4*	73	^{55}V(6.54 s)	880.70(18.1), 921.10(4.6), 565.88(4.50)
• 517.766 *20*	0.341 *6*	^{171}Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
• 517.78 *5*	0.0142 *22*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
517.8 *2*	0.41 *6*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
517.9 *6*	0.71 *24*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
517.92 *9*	0.0029	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
518.0	1.3	^{83}As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
518.0 *2*	0.33 *8*	^{108}Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
518.0 *2*	0.059 *12*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
518.0 *8*	1.1 *5*	^{166}Lu(2.12 m)	1427.18(23.0), 2098.6(16.1), 1256.64(15.2)
518.0	†0.35 *8*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
• 518.011 *16*	0.0475 *21*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
518.011 *16*	6.1 *3*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
518.011 *16*	3.8 *3*	^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
518.05 *2*	13.6 *5*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
518.09 *72*	0.05 *3*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
518.1 *5*	†25 *8*	^{134}Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
• 518.178 *8*	0.16 *5*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
518.18 *5*	0.062 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
518.2 *4*	0.19 *4*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
518.2 *3*	0.0060 *20*	^{240}Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
518.2 *5*	0.051 *17*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
518.26 *25*	0.10 *3*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
518.30 *25*	0.78 *18*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
518.3 *2*	0.149 *10*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
518.4 *5*		^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
518.4 *4*	0.9 *1*	^{156}Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
518.43 *15*	0.15 *6*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
• 518.45 *20*	0.027 *6*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
518.46 *11*	0.32 *3*	^{157}Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
518.48 *6*	0.088 *6*	^{249}Cm(64.15 m)	634.31(1.5), 560.45(0.84), 368.76(0.35)
• 518.48 *6*	0.00011	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
518.50 *15*	0.127 *20*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
518.5 *3*	0.34 *10*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
518.50 *10*	0.42 *4*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 518.50 *10*	1.98 *11*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
518.55 *7*	6.7 *5*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 518.55 *7*	34.0 *11*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 557.972(30.1)
518.60 *6*	0.69 *5*	^{90}Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
518.67 *6*	0.68 *4*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
518.7		^{41}Cl(38.4 s)	1353, 834, 515
518.7 *4*	†3.3 *7*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
518.8 *3*	0.06 *3*	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
518.8 *1*	†1.87 *17*	^{123}La(17 s)	92.5(†100), 937.3(†43), 153.6(†43)
518.8 *1*	0.050 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
518.8 *5*	0.45 *23*	^{141}Eu(2.7 s)	394.0(0.60), 882.9(0.54), 804.4(0.44)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
518.8 *4*	0.59 *12*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
518.8 *4*	0.09 *3*	^{223}Ac(2.10 m)	98.58(0.891), 191.3(0.58), 83.55(0.57)
518.8 *1*	0.40 *5*	^{241}Np(13.9 m)	174.94(3.1), 132.99(0.86), 362.4(0.19)
518.8 *1*	0.04	^{241}Np(13.9 m)	174.94(3.1), 132.99(0.86), 518.8(0.40)
518.86 *4*	3.15 *11*	^{157}Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
518.89 *6*	0.233 *22*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
518.9 *1*	0.0101 *25*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
518.9 *2*	1.02 *10*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
• 518.90 *15*	0.0099 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 518.96 *3*	0.0180 *11*	^{147}Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
519.0 *3*	0.072 *9*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
519.1 *2*	0.72 *14*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
519.1 *2*	6.2 *7*	^{117}Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
519.1 *4*	0.023 *8*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
519.1 *2*	2.1 *5*	^{196}Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
519.1 *2*	†0.60 *14*	^{196}Bi(240 s)	1049.21(†21.1), 371.93(†20.8), 689.00(†19.2)
519.12 *20*	0.63 *7*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
519.13 *5*	0.0471 *13*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
519.2 *2*	†27.6 *21*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
519.2 *1*	†2.0 *2*	^{104}Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
519.2 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
519.2 *3*	†12.6 *15*	^{198}Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)
519.28 *15*	0.25 *3*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
519.30 *14*	0.010 *5*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
519.30 *14*	0.150 *16*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
• 519.3 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
519.4 *1*	0.89 *9*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
519.4	4.9 *4*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
519.4 *4*	0.0177 *16*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
519.4 *1*	†1.6 *13*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
519.4 *1*	†3.4 *13*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
519.42 *18*	†4.6 *7*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
519.44 *8*		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
519.5 *2*	0.069 *10*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
519.5 *2*	0.081 *7*	^{224}Fr(3.30 m)	215.985(33.1), 131.613(16.3), 836.90(9.8)
519.5 *5*	0.00015 *4*	^{255}Fm(20.07 h)	81.477(0.81), 58.477(0.67), 80.92(0.27)
519.51 *15*	†5.7 *5*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
519.6 *3*	†0.53 *7*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
519.6 *2*	0.42 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
519.6 *4*	0.105 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
519.6 *1*	0.39 *3*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
519.67 *5*	0.59 *5*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
519.7 *1*	0.28 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
519.7 *2*	0.32	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
519.7 *3*		^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
519.78 *19*	0.096 *12*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
• 519.788 *15*	0.019 *4*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 519.788 *15*	0.049 *7*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
519.8 *5*	0.59 *12*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
519.8 *3*	48.4 *10*	^{114}Rh(1.85 s)	332.9(87), 618.7(31), 647.8(28)
519.98 *12*	0.98 *9*	^{80}Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
520.0	0.046	^{44}Ar(11.87 m)	182.6(66), 1703.4(57), 1886.0(31)
520 *1*	0.30 *3*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
520 *1*	0.08 *4*	^{89}Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
520.0 *2*	6.3 *3*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
520.0 *4*	0.95 *19*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 520.085 *19*	0.461 *10*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
520.1 *1*	0.044 *12*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
520.1 *2*	†85 *10*	^{151}Yb(1.6 s)	474.2(†100), 108.4(†52)
520.1 *2*	0.052 *11*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
520.11 *7*	1.7 *3*	^{202}Au(28.8 s)	439.59(10.0), 1125.20(2.30), 1306.38(2.25)
• 520.11 *7*	0.58 *4*	^{202}Tl(12.23 d)	439.59(91), 959.70(0.069)
520.149 *17*	0.069 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
520.20 *2*	0.024 *12*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
520.2 *8*	†1.4 *6*	^{160}Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
520.2 *4*	0.85 *10*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
520.2 *3*	0.14 *7*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
• 520.230 *5*	0.0536 *15*	^{152}Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
520.230 *5*	†2.8 *9*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
520.3 *4*	0.82 *8*	^{55}Co(17.53 h)	931.3(75), 477.2(20.2), 1408.4(16.88)
520.3 *8*	0.023 *12*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
520.3 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
520.32 *10*	†19 *1*	^{163}Hf(40.0 s)	70.98(†100), 62.14(†64), 45.39(†48)
520.39 *1*	0.0576 *18*	^{83}Br(2.40 h)	529.635(1.200), 552.63(0.0200), 648.9(0.0124)
• 520.39 *1*	44.7 *22*	^{83}Rb(86.2 d)	529.635(29.3), 552.63(16.0), 790.0(0.657)
520.4 *5*	15.8 *8*	^{58}Cr(7.0 s)	682.9(81), 126(75), 289.5(18.8)
520.4 *3*	†5.4 *21*	^{71}Cu(19.5 s)	489.7(†100), 595.2(†30.5), 586.5(†30.2)
520.4 *2*	1.9 *8*	^{103}Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
520.4 *2*	0.019 *12*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
520.4 *2*	†1.6 *3*	^{169}Ta(4.9 m)	511.0(†20.6), 28.80(†18.3), 192.4(†8)
520.4 *6*	0.0055 *23*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
520.44 *6*	4.41 *18*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
520.5 *2*	0.080 *6*	^{71}Zn(2.45 m)	511.56(32), 910.27(7.8), 389.88(3.8)
520.5 *2*	>0.019	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
520.5 *2*	0.15	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
520.5 *5*	1.84 *12*	^{154}Pr(2.3 s)	162.4(15), 932.1(11.7), 70.8(11.22)
520.54 *5*	0.113 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
• 520.639 *7*	0.558 *22*	^{77}As(38.83 h)	238.996(1.6), 249.786(0.394), 87.8671(0.202)
• 520.639 *7*	22.4 *4*	^{77}Br(57.036 h)	238.996(23), 297.215(4.16), 249.786(2.98)
520.7 *1*	2.4 *5*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
520.7 *7*	0.065 *15*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
520.70 *11*	1.41 *16*	^{197}Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
520.74 *24*	0.055 *5*	^{72}Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
520.78 *9*	0.85 *6*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
520.8 *3*	0.033 *3*	^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
520.8 *1*	0.15 *4*	^{94}Sr(75.3 s)	1427.7(94), 723.8(2.40), 703.9(2.13)
520.8 *4*	0.64 *18*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
520.8 *2*	0.40 *4*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
520.89 *6*	0.35 *6*	^{201}Au(26 m)	542.6(1.2), 517.0(0.83), 613.2(0.77)
520.9 *3*	0.20 *4*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
520.9 *2*	†100	^{138}Pm(3.24 m)	729.0(†37.8), 493.1(†21.6), 1279.1(†11.0)
• 520.92 *4*	0.00033 *9*	^{166}Ho(26.83 h)	80.574(6.71), 1379.40(0.93), 1581.89(0.187)
• 520.92 *4*	0.00028 *5*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
520.92 *4*	0.168 *17*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
• 520.927 *10*	0.026 *9*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
520.97 *25*	0.078 *17*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
• 520.99 *4*	0.160 *7*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
520.99 *4*	0.079 *13*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
521.0 *5*	0.12 *3*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
521.0 *6*	†0.50 *20*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
521.06 *15*	0.55 *8*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
521.07 *15*	0.64 *9*	^{74}Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
521.10 *14*	1.40 *12*	^{81}As(33.3 s)	467.72(20), 491.20(8.5), 1406.14(0.998)
• 521.1 *2*	0.032 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
• 521.1 *20*	†9×10^{04}	^{237}Pu(45.2 d)	280.40(†870000), 298.89(†7.85×10^{6}), 320.75(†6.48×10^{6})
521.175 *5*	†104	^{196}Ir(1.40 h)	393.346(†105.2), 447.1(†102.1), 355.684(†102)
• 521.175 *5*	0.389 *9*	^{196}Au(6.183 d)	355.684(87), 332.983(22.9), 1091.331(0.149)
521.2 *6*	0.02 *1*	^{107}Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
521.2 *2*	0.68 *15*	^{148}Ce(56 s)	269.519(17.0), 291.724(16.7), 121.169(13.2)
• 521.28 *15*	0.0079 *8*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
521.28 *7*	0.42 *8*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
521.3 *1*	0.27	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
521.3 *5*	0.48 *14*	^{178}Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
521.3 *5*	3.9 *5*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
• 521.303 *3*	0.030 *4*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
521.33 *4*	0.00066 *22*	^{205}Hg(5.2 m)	203.750(2.2), 415.70(0.0130), 1218.96(0.0062)
521.34 *14*	0.42 *6*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
521.4 *1*	0.11 *4*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
521.4 *7*	0.16 *7*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
521.4 *6*	†9 *4*	^{191}Hg(49 m)	252.5(†100), 196.3(†65), 224.7(†60)
521.4 *1*	0.74 *5*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 521.464 *8*	0.25 *4*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
521.55 *17*	0.231 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
521.55 *5*	4.08 *10*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
521.6 *2*	1.26 *14*	^{98}Y(0.548 s)	1223.0(36.0), 2941.3(16.7), 1590.9(14.7)
521.6 *1*		^{125}La(76 s)	67.6(34), 43.6(3.5), 985.2
521.6 *3*	0.24 *4*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
521.6 *1*	2.4	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
521.6 *7*	0.231 *22*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
521.7 *4*	†3.8	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
521.8 *5*	0.6	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
521.8 *5*	0.40	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
521.8 *2*	†5.7 *23*	^{155}Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
• 521.9 *2*	0.132 *14*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
521.9 *2*	0.121 *9*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
522.0 *3*	>0.6	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
522.0 *4*	0.05 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 522.06 *15*	†9×10^{03} *3*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^{9}), 33.195(†6000×10^{8})
522.07 *7*	0.0023	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
522.10 *13*	0.40 *3*	^{90}Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
522.1 *2*	2.89 *18*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
522.1 *2*	9.4 *7*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
522.1 *2*	0.37 *9*	^{117}Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
522.1 *2*	0.018 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
522.12 *5*	0.64 *8*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
522.13 *7*	0.247 *12*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
522.2 *3*	0.78 *10*	^{196}Os(34.9 m)	407.9(5.9), 126.2(5.3), 315.4(2.5)
522.22 *5*	7.5 *5*	^{106}Tc(35.6 s)	270.07(56), 2239.30(13.6), 1969.40(8.9)
• 522.30 *30*	0.088 *18*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
522.3	0.432 *14*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
522.3 *1*	†11.0 *11*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
522.3	†27 *7*	^{189}Tl(2.3 m)	333.7(†100), 942.2(†69), 451.0(†49)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 522.3 *1*	0.0016 *4*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
522.4 *8*	0.004 *4*	^{45}K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
• 522.4 *4*	0.0010 *3*	^{111}Ag(7.45 d)	342.118(7), 245.422(1.24), 96.73(0.20)
522.4	>0.09	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
522.4 *4*	0.38 *8*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
522.45 *9*	0.151 *16*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
522.47 *9*	0.62 *11*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
• 522.47 *5*	15.7 *3*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
522.5 *2*	1.14 *23*	^{75}Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
522.5 *3*	1.25 *16*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
522.5 *3*	0.30 *5*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
522.5	0.15	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
522.5 *5*	0.90 *15*	^{148}Pr(2.0 m)	301.702(95), 450.58(50), 697.61(40)
522.5 *4*	2.1 *7*	^{179}Yb(8.0 m)	592.1(75), 612.3(35.4), 381.4(9.6)
522.5 *5*	†9	^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
522.51 *15*	†3.8 *6*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
522.53 *5*	0.0457 *20*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
522.58 *19*	0.23 *7*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
522.6 *3*	†16 *2*	^{117}Pd(4.3 s)	247.5(†100), 649.9(†41), 323.9(†37)
522.6 *3*	†0.18 *3*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
522.65 *9*	16.0 *5*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
522.66 *25*	0.073 *15*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
522.670 *4*	0.149 *15*	^{155}Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
• 522.68 *10*	0.021 *6*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
522.7 *2*	0.195 *23*	^{96}Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
522.70 *13*	0.35 *5*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
522.757 *6*	56	^{233}Ac(145 s)	539.599(38), 16.8
522.76 *20*	0.034 *9*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
522.77 *4*	1.43 *13*	^{151}Tb(25 s)	379.39(5.9), 830.81(3.10), 504.4(0.48)
522.8 *5*	0.0040 *13*	^{82}Rb(1.273 m)	776.517(13), 1395.139(0.471), 698.374(0.133)
522.8 *1*	†281 *43*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
522.82 *12*	†2.0 *3*	^{182}Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
522.9 *3*	0.072 *10*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
523.0 *5*	†7.0 *10*	^{113}I(6.6 s)	462.5(†100), 622.4(†74), 351.5(†43)
523		^{129}Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
• 523.0 *5*	0.0017 *4*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
• 523 *1*	0.012	^{252}Es(471.7 d)	52.33(0.55), 64.42(0.274), 418.5(0.220)
523.13 *5*	0.37 *9*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 523.13 *5*	0.0148 *8*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
523.133 *17*	0.106 *8*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
523.18 *4*	10.1 *3*	^{80}Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
• 523.2 *2*	0.23 *6*	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
523.22 *20*	1.7 *4*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 484.501(11.3)
• 523.277 *9*	0.039 *7*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
523.28 *12*	0.170 *14*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
523.3 *3*	0.07 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
523.3 *3*	0.05 *5*	^{127}In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
523.3 *3*	0.66 *9*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
523.31 *20*	0.64 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
523.36 *15*	0.26 *9*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
523.39 *11*	†4.3 *22*	^{189}Au(28.7 m)	713.17(†100), 812.68(†63), 447.65(†55)
523.4 *5*	5.1	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
523.5 *4*	0.034 *12*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
523.5 *7*	0.43 *10*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
523.5 *4*	0.10 *5*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
523.60 *10*	5.15 *25*	^{127}Cd(0.43 s)	1235.07(8.3), 376.28(7.5), 1067.0(5.1)
523.6 *4*	0.17 *5*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
523.6 *4*	0.81 *7*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
523.66 *5*	0.234 *17*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
523.68 *10*		^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
523.71 *4*	1.33 *5*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
523.75 *10*	0.119 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
523.76 *5*	3.14 *8*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
523.78 *4*	0.42 *5*	^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
523.792 *8*	88.7 *15*	^{50}Sc(102.5 s)	1553.768(100), 1121.124(99.5), 2205.722(1.27)
523.8 *5*	1.59 *13*	^{129}Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
523.8	0.31	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
• 523.8 *4*	0.019 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
523.8 *1*	18.3 *10*	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
523.8 *4*	0.23 *12*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
523.8 *3*	†0.38 *10*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
523.86 *3*	3.70 *11*	^{58}Mn(65.3 s)	810.764(<0.026), 1323.09(6.44), 459.160(21.4)
523.88 *2*	0.38 *4*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
523.9 *3*	†9 *7*	^{17}C(193 ms)	1373.8(†100), 1849.5(†92), 1906.7(†29)
523.9 *3*	†0.5	^{111}Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
523.9 *5*	0.341 *21*	^{136}Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
523.9 *1*	0.045 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
523.9 *5*	0.51 *5*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
524	>0.019	^{90}Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
524.0 *1*	†11.2 *3*	^{95}Pd(13.3 s)	1350.9(†105), 716.6(†70.63), 381.8(†50.8)
524.0 *5*	0.056 *20*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
524.0 *5*	†0.6	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
524.0 *2*		^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
• 524.0	6.0×10^{-5}	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
524.02 *20*	0.08 *3*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
• 524.05 *4*	0.224 *10*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 524.05 *6*		^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
524.1	>0.08	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
524.10 *20*	0.33 *5*	^{99}Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
524.1 *1*	0.016 *5*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
524.1 *1*	0.25 *13*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
524.1	10 *1*	^{145}Tb(29.5 s)	257.8(39), 987.8(37), 537.0(23)
524.1 *3*	0.42	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
524.1 *2*	0.106 *18*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
524.2 *1*	0.217 *12*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
524.2 *4*	0.173 *13*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
524.2 *3*	0.08	^{154}Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
524.2 *2*	†12 *2*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
524.2 *3*	0.23 *11*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
524.28 *15*	0.34 *6*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
524.3 *2*	76 *5*	^{116}Cs(3.84 s)	393.5(<0.09), 615.1(30.4), 622.3(10.4)
• 524.30 *5*	0.0097 *10*	^{125}Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
524.3	0.460 *18*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
524.3 *1*	†29 *4*	^{180}Au(8.1 s)	153.3(†100), 257.6(†26), 861.3(†22.6)
524.3 *4*	0.0051 *9*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 524.3 *4*	†0.0093 *19*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
524.31 *4*	0.562 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
524.4 *12*	0.08 *5*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 524.4 *4*	0.0023 *4*	^{111}Ag(7.45 d)	342.118(7), 245.422(1.24), 96.73(0.20)
524.4 *3*	0.92 *10*	^{118}I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
524.4		^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
524.4	0.9	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
524.4 *3*	†13.0 *21*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
524.44 *11*	†7.6 *6*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
524.45 *6*	0.08	^{79}Ge(19.1 s)	109.58(21), 1505.85(9.2), 100.48(2.70)
524.45 *6*	4.4	^{79}Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
524.49 *19*	0.40 *8*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
524.5 *3*	0.33 *7*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
524.5 *1*	0.026 *3*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
524.5 *2*	0.46 *4*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
524.5 *3*	0.066 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
524.5 *10*	0.23	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
524.54 *15*	0.168 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
524.6 *2*	†2.0 *6*	^{132}Pr(1.6 m)	325.5(†100), 496.9(†25), 822.4(†17.3)
524.6 *3*	0.19 *7*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
524.6 *2*	†1.48 *11*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
524.6	0.035 *17*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
524.65 *5*	1.89 *20*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
524.65 *5*		^{106}In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
524.70 *10*	1.80 *23*	^{94}Ru(51.8 m)	366.94(75), 891.68(25), 75.5(>0.08)
524.77 *25*	†16 *3*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
524.8	0.6	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
• 524.8 *1*	0.177 *20*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
524.8 *4*	0.012 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
524.835 *18*	0.30 *3*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
524.9 *2*	2.3 *3*	^{105}Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
524.9 *2*	0.40 *12*	^{124}Cs(30.8 s)	353.9(40), 914.8(4.0), 492.6(3.6)
524.9 *4*	1.0 *1*	^{156}Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
524.90 *11*	0.059 *13*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
524.92 *4*	0.073 *3*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
525.0 *15*	0.11	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
525		^{82}Zr(32 s)	397, 278, 248
525.0 *2*	0.58 *7*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
525.00 *15*	4.0 *6*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
525.0 *4*	0.34 *6*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
525.0 *6*	0.015 *6*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
525.0 *6*	0.19 *6*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 525.05 *15*	0.0112 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
525.08 *20*	0.27 *3*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
525.1 *4*	1.4 *4*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
525.1 *1*	0.077 *12*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 525.14 *17*	0.0158 *16*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
525.2 *1*	†2.85 *24*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
525.20 *20*	1.00 *14*	^{123}Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
525.2 *2*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
525.3 *1*	†1.03 *20*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
525.30 *15*	0.38 *6*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
• 525.35 *15*	0.39 *8*	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
525.4 *2*	0.138 *12*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
• 525.410 *50*	0.156 *10*	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 525.410 *50*	0.036 *18*	^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
525.43 *17*	†30 *6*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
525.46 *15*	0.13 *2*	^{126}In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
525.46 *15*	0.64 *10*	^{126}In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
525.46 *25*	†1.8 *4*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
525.47 *12*	1.21 *7*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
525.5 *3*	0.40 *5*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
525.50 *21*	0.068 *17*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
525.5 *4*	0.09 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
525.5 *5*	†0.40 *10*	^{162}Lu(1.37 m)	166.82(†100), 631.87(†26.6), 798.76(†16.9)
525.5 *3*	0.17	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
525.55 *3*	0.42 *3*	^{200}Pb(21.5 h)	147.63(37.7), 257.17(4.46), 235.63(4.30)
525.6 *4*	0.076 *19*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
525.6 *1*	1.30 *14*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
525.6 *3*	0.230 *23*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
525.63 *14*	0.28 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
• 525.65 *4*	0.105 *8*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
• 525.67 *6*	0.124 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
525.7 *2*	0.14 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 525.75 *4*	0.49 *3*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
525.80 *4*	0.87 *7*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
525.83 *2*	0.73 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
525.84 *3*	0.231 *25*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
525.851 *16*	8.73 *17*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
525.9	>0.047	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
525.9 *2*	17 *3*	^{141}Gd(14 s)	215.8(54), 336.2(17.1), 120.6(9.3)
525.9 *3*	0.33 *4*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
525.95 *12*	0.352 *14*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
526.0 *5*	0.18 *4*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
526 *1*	24	^{125}Cs(45 m)	111.8(9), 412(5), 712(3.5)
526.0 *5*		^{125}La(76 s)	67.6(34), 43.6(3.5), 985.2
526.0 *2*	17 *5*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
526.0 *3*	0.12 *5*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
526.0 *4*	1.62	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
526.01 *10*	3.0 *3*	^{166}Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
526.01 *15*	0.44 *7*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
526.02 *10*	†9.2 *12*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 526.02 *10*	0.043 *5*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
• 526.09 *5*	0.032 *3*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
526.1 *1*	†4.3 *7*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
• 526.10 *4*	0.097 *6*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
• 526.1 *1*	0.0169 *19*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
526.1 *2*	†4.1	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
526.15 *8*	0.065 *4*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
526.2 *1*	0.0031 *19*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
526.2 *5*	5.90 *17*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
526.2 *3*	†0.18 *9*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
526.2 *1*	†1.70 *17*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
• 526.2 *4*	0.0029 *21*	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
526.22 *8*	0.147 *11*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
526.3 *1*	†0.65 *9*	^{123}La(17 s)	92.5(†100), 937.3(†43), 153.6(†43)
• 526.39 *4*	5.7×10^{-8} *19*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
526.4 *2*	1.3 *5*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
526.4 *1*	0.0151 *24*	^{126}Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
526.4 *7*	21 *4*	^{132}In(0.201 s)	374.3(62), 4040.8(61), 299.2(49)
526.5 *1*	0.0046 *3*	^{107}Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
526.5 *3*	†1.3 *5*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
526.5 *2*	0.0063	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
526.557 *14*	1.58 *7*	^{128}I(24.99 m)	442.901(17), 969.458(0.404), 1140.079(0.0103)
526.557 *14*	2.41 *3*	^{128}Cs(3.66 m)	442.901(26.8), 1140.079(1.168), 969.458(0.630)
526.561 *17*		^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
526.57 *4*	45 *2*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
526.6 *5*	0.03 *3*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
• 526.642 *3*	0.861 *8*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
526.69 *32*	0.117 *23*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
526.7 *2*	1.25 *16*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
526.7 *4*	0.29	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
526.7 *3*	†1.3 *4*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
526.7 *3*	0.028 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
526.7 *2*	0.31 *3*	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
526.72 *8*	0.079 *13*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
526.77 *6*	0.44 *5*	^{201}Au(26 m)	542.6(1.2), 517.0(0.83), 613.2(0.77)
• 526.80 *6*	0.013 *8*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
526.8 *5*	0.20 *6*	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
526.8 *2*	†6.3 *12*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
526.83 *15*	0.067 *6*	^{146}Ce(13.52 m)	316.74(56), 218.23(20.8), 264.56(9.0)
• 526.886 *20*	0.0131 *6*	^{152}Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
526.886 *20*	†6.2 *5*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
526.886 *20*	1.70 *12*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
526.9 *3*	0.077 *14*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
526.95 *11*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
527.0 *5*	0.14 *6*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
527.0 *8*	†2.3 *9*	^{160}Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
527.0	0.45	^{199}Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
527.1 *3*	0.27 *7*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
527.1 *2*	†1.59 *11*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 527.106 *12*	0.944 *21*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
527.17 *6*	0.50 *4*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
527.18 *5*	†24	^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
527.2 *2*	0.39 *7*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
• 527.20 *7*	0.10 *1*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
527.2 *4*	1.4 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
527.27 *7*	2.9 *3*	^{206}At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
527.3 *1*	0.11 *1*	^{143}La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
527.3 *4*	†3.8	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
527.4 *1*	3.40 *13*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
527.4 *1*	63	^{151}Ho(35.2 s)	775.53(9.2), 209.5(5.69), 1549.7(4.6)
527.4 *6*	†95	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
527.4 *3*	†24 *3*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
527.4 *2*	1.14 *4*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
527.454 *15*	0.0805 *25*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
527.5 *4*	†1.07 *20*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
527.50 *30*	0.020 *4*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
527.5 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
527.51 *10*		^{148}Pr(2.0 m)	301.702(95), 450.58(50), 697.61(40)
527.58 *10*	0.0291 *10*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
527.6	0.46 *7*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
527.6	0.012 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
527.6 *3*	0.028 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 527.61 *1*	0.070 *4*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
527.7 *2*	†100 *3*	^{139}I(2.29 s)	571.2(†98), 536.6(†67), 656.0(†58)
527.7 *2*	0.076 *11*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
527.8	2.5	^{80}Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
527.8 *1*	0.68 *9*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
527.85 *5*	8.3 *11*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
527.88 *6*	0.72 *10*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
• 527.900 *10*	27.45 *18*	^{115}Cd(53.46 h)	336.240(45.9), 492.3(8.03), 260.890(1.94)
527.9 *1*	0.39 *3*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
527.92 *30*	0.075	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
528.0 *2*	0.390 *24*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
528 *1*	0.0040 *20*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
528.022 *17*	1.27 *8*	^{158}Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)
528.038 *3*	0.90 *16*	^{231}Ac(7.5 m)	282.471(39.0), 307.063(30.4), 221.399(16.8)
528.05 *28*	1.40 *22*	^{99}Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
528.17 *30*	0.094 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
528.18 *14*	0.153 *20*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
528.2 *5*	1.17 *20*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
528.20 *10*	0.042 *14*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
• 528.24 *7*	33	^{99}Rh(16.1 d)	353.05(30.0), 89.65(29.0), 322.41(5.4)
528.24 *2*	9.1 *2*	^{100}Nb(1.5 s)	535.60(45.7), 159.547(8.8), 1022.5(4.9)
528.24 *2*	8.7 *16*	^{100}Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
528.25 *5*	3.92 *6*	^{140}Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
• 528.260 *14*	0.126 *7*	^{172}Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
• 528.260 *14*	4.04 *8*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
528.28 *6*	0.99 *11*	^{184}Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
528.3 *5*	0.079 *25*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
528.35 *3*	0.125 *8*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
528.38 *2*	1.723 *20*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
528.4 *3*	0.135 *10*	^{118}I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
528.4 *3*		^{118}I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
528.40 *16*	0.24 *5*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
528.5 *4*	1.9 *5*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
528.5 *7*	0.12 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
528.5 *2*	†0.86 *9*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
528.5 *2*	2.38 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
528.5 *2*	0.25 *4*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 528.572 *10*	0.000175 *7*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
• 528.587 *10*	0.00012 *3*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 528.587 *10*	0.508 *12*	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
528.6 *3*	0.046 *19*	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
528.68 *14*	0.43 *5*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
528.69 *7*	0.0148 *15*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 528.7 *1*	0.0541 *11*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
528.73 *9*	0.087 *9*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
• 528.76 *10*	1.62 *18*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
528.83 *3*	>0.2	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
528.83 *3*	0.7 *1*	^{118}In(5.0 s)	1229.68(5.0), 1173.59(0.43), 813.22(0.19)
528.83 *3*	0.472 *22*	^{118}Sb(3.6 m)	1229.68(2.5), 1267.23(0.511), 827.30(0.395)
528.9 *1*	1.98 *20*	^{100}Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
528.9 *3*	0.52 *10*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
528.9 *5*	0.23	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
528.90 *13*	0.71 *4*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
528.96 *5*	1.39 *4*	^{123}I(13.27 h)	158.97(83), 440.02(0.428), 538.54(0.382)
529.0 *5*	0.09 *3*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
529.0 *2*	†2.1 *4*	^{169}Ta(4.9 m)	511.0(†20.6), 28.80(†18.3), 192.4(†8)
529.0 *2*	0.14 *6*	^{190}Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
529.08 *17*	0.014 *5*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
529.09 *6*	2.12 *20*	^{132}Sn(39.7 s)	340.53(49), 85.58(48.2), 899.04(44.8)
529.1 *1*	0.70 *7*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
529.1 *4*	1.39 *19*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
529.1 *3*	0.09 *3*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
529.1 *3*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 529.1 *7*	0.053 *8*	^{252}Es(471.7 d)	52.33(0.55), 64.42(0.274), 418.5(0.220)
529.169 *22*	0.376 *9*	^{61}Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
• 529.17 *20*	†4.6×10^3	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
529.2 *4*	2.48 *4*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
• 529.2 *10*	0.042 *21*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
529.26 *5*	14.9 *15*	^{237}Pa(8.7 m)	853.6(34), 865.1(15.5), 540.61(9.3)
529.3 *2*	0.00036 *18*	^{137}Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
529.4 *3*	1.38 *14*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
529.4 *2*	0.22 *13*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
529.4 *6*	0.05 *5*	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
529.4 *3*	0.087 *25*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
529.5 *3*	†0.8	^{111}Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
529.50 *2*	1.26 *7*	^{161}Gd(3.66 m)	360.94(0.59), 314.92(22.7), 102.315(13.9)
529.50 *13*	0.0070 *8*	^{249}Cm(64.15 m)	634.31(1.5), 560.45(0.84), 368.76(0.35)
529.59 *5*	0.49 *3*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
529.60 *15*	1.3 *2*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
529.6 *4*	0.20 *7*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
529.6 *1*	†34 *6*	^{189}Au(28.7 m)	713.17(†100), 812.68(†63), 447.65(†55)
529.635 *9*	1.200 *17*	^{83}Br(2.40 h)	520.39(0.0576), 552.63(0.0200), 648.9(0.0124)
• 529.635 *9*	29.3 *13*	^{83}Rb(86.2 d)	520.39(44.7), 552.63(16.0), 790.0(0.657)
529.66 *20*	0.67 *9*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
529.7 *6*	†0.17 *11*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
529.7 *4*	0.038 *9*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
529.72 *5*	0.41 *6*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
529.75 *7*	0.33 *4*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
529.79 *3*	3.43 *22*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 529.793 *8*	0.0118 *20*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
529.8 *2*	0.45 *12*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
529.8 *7*	0.84 *14*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 529.801 *18*	9.69 *7*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
529.801 *18*	0.179 *4*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
529.872 *11*	87.0 *17*	^{133}I(20.8 h)	875.329(4.51), 1298.223(2.35), 510.530(1.83)
529.88 *14*	0.65 *9*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
529.9 *2*	0.08 *3*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
529.9 *2*	0.7 *3*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
529.9 *2*	1.27 *14*	^{117}Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
• 529.9 *1*	0.007 *3*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
530.0 *1*	9.0 *4*	^{96}Sr(1.07 s)	122.297(76.50), 809.401(71.9), 931.7(11.8)
530 *1*	23.1 *9*	^{97}Y(1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
• 530		^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
530		^{219}Fr(20 ms)	493, 352, 189
530.0 *5*	0.030 *20*	^{223}Ac(2.10 m)	98.58(0.891), 191.3(0.58), 83.55(0.57)
530.0 *3*	1.62 *12*	^{251}Cm(16.8 m)	542.7(10.9), 389.7(1.28), 438.2(1.24)
530.07 *7*	0.252 *13*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
• 530.08 *4*	0.058 *3*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
530.1 *1*	0.19 *4*	^{94}Sr(75.3 s)	1427.7(94), 723.8(2.40), 703.9(2.13)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
530.1 *4*	0.53 *6*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
530.10 *17*	0.52 *10*	^{122}In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
530.1 *2*	0.35 *3*	^{139}Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
530.1 *3*	0.066 *19*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
530.1 *3*	†11.1 *4*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
530.15 *8*	0.0159 *7*	^{194}Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 530.15 *8*	0.60 *6*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
530.18 *11*	0.18	^{53}V(1.61 m)	1006.14(90), 1289.59(10), 283.14(0.8)
530.2 *2*	0.17 *5*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
530.22 *4*	4.49 *22*	^{81}Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
530.22 *4*	†14 *5*	^{82}Ga(0.602 s)	711.18(†100), 216.47(†41)
530.24 *20*	†0.21 *2*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
530.3 *4*	0.098 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 530.34 *8*	0.047 *23*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
530.4 *1*	†3.9 *4*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
530.42 *14*	0.12 *4*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
• 530.45 *8*	0.102 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
530.47 *6*	0.232 *19*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
530.5 *8*	0.19 *6*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
530.5 *1*	15.6 *11*	^{104}Tc(18.3 m)	358.0(89), 535.1(14.7), 884.4(10.9)
530.5 *1*	0.25 *7*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
530.5 *3*	1.00 *20*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
• 530.50 *10*	0.094 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
530.5 *5*	†0.63 *25*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
530.5 *1*	†1.2 *2*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
530.5 *3*	>0.20	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
530.5 *2*	0.0012	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
530.59 *25*	0.85 *17*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
• 530.6 *5*	0.095 *9*	^{47}Ca(4.536 d)	1297.09(74), 489.23(6.5), 807.86(6.5)
530.6 *7*	0.12 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
530.6 *1*	0.35 *3*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
530.6 *2*	0.43 *4*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
530.6 *2*	0.21 *10*	^{242}U(16.8 m)	67.60(9.6), 55.58(3.90), 585.0(1.92)
530.6 *3*	0.034 *17*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
530.65 *15*	0.0011 *4*	^{45}Ti(184.8 m)	720.22(0.154), 1408.6(0.085), 1662.4(0.041)
530.7 *1*	0.128 *15*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
• 530.7 *1*	0.137 *25*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
530.7	0.20	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
530.7 *1*	29 *3*	^{140}Eu(1.51 s)	1068.0(3.2), 459.9(3.19), 2064.9(0.93)
530.75 *17*	0.52 *11*	^{48}Mn(158.1 ms)	752.15(99.7), 1106.25(39.2), 3676.2(30.4)
530.8 *4*	0.032 *14*	^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
530.86 *21*	0.51 *8*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
530.9 *2*	2.5 *3*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
530.94 *8*	0.075 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
531.0 *4*	0.75 *25*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
531.0 *2*	1.3 *4*	^{102}Cd(5.5 m)	481.0(63), 1036.6(12.8), 505.1(9.6)
531.00 *15*	0.77 *13*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
531 *1*		^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 531.016 *22*	13.1 *7*	^{147}Nd(10.98 d)	91.105(28), 319.411(1.95), 439.895(1.20)
531.1 *1*	0.93 *12*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
• 531.16 *11*	0.0027 *3*	^{97}Ru(2.9 d)	215.718(86), 324.48(10.79), 569.31(0.873)
531.2 *2*	6.0 *4*	^{69}Cu(2.85 m)	1007.5(23.4), 834.4(13.1), 1429.8(3.42)
531.2 *5*	1.8 *5*	^{110}Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
531.2 *2*	0.12 *5*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
531.2 *3*	†37 *4*	^{137}Sm(45 s)	380.5(†100), 163.7(†85), 408.3(†40)
• 531.243 *26*	0.132 *5*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
531.3	0.13	^{44}Ar(11.87 m)	182.6(66), 1703.4(57), 1886.0(31)
531.3 *3*	0.0464 *11*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
531.3 *5*	0.09	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 531.3 *1*	0.0044 *11*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
531.33 *18*	0.43 *5*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
• 531.38 *15*	0.067 *6*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
531.419 *22*	0.39 *4*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
531.42 *8*	1.02 *5*	^{101}Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
531.54 *4*	>0.017	^{167}Ho(3.1 h)	346.547(56), 321.336(23.5), 237.873(5.0)
• 531.54 *4*	1.6	^{167}Tm(9.25 d)	207.801(41), 57.0723(4.6), 264.9(>0.07)
531.6 *2*	0.14	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
531.6 *5*	†1.9 *4*	^{198}Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)
• 531.61 *6*	0.00149 *12*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
531.65 *10*	0.350 *12*	^{207}Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
531.7 *4*	0.89 *9*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
531.7 *2*	†20 *5*	^{155}Tm(21.6 s)	226.8(†100), 88.1(†17), 1057.2(†13)
531.7 *1*	†4.3 *4*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
• 531.72 *35*	0.0009 *4*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
531.75 *6*	3.01 *24*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
531.8 *2*	0.28 *8*	^{105}Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
531.8 *4*	0.0042	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
531.83 *5*	0.088 *3*	^{129}Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
531.86 *5*	8.75 *17*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
531.9 *2*	†15.1 *4*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
531.97 *6*	0.135 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
531.97 *3*	0.79 *7*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
531.98 *4*	0.247 *13*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
• 531.99 *6*	0.083 *6*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
532.0 *3*	0.32 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
532.0 *1*	2.0 *5*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
532.0 *4*	6 *4*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
• 532 *1*	0.019 *10*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
532.0 *5*	2.8 *3*	^{212}Fr(20.0 m)	1273.8(46), 227.72(43), 1185.6(14.1)
532.03 *7*	5.4 *4*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
532.03 *7*	0.26 *2*	^{88}Br(16.5 s)	
532.08 *4*	6.07 *25*	^{121}I(2.12 h)	212.189(84), 598.74(1.47), 475.28(1.02)
532.1 *3*	2.35 *25*	^{94}Tc(293 m)	871.082(100), 702.626(99.6), 849.74(95.7)
532.1 *4*	0.56 *4*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
532.1 *7*	0.050 *12*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
• 532.129 *8*	0.045 *6*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
532.13 *10*	1.17 *11*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
532.2 *4*	3.8	^{51}Ca(10.0 s)	861.6(35), 1394.0(27), 1167.5(23)
532.20 *20*	0.32 *7*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
532.2 *1*	†58 *4*	^{171}Ho(53 s)	903.3(†100), 198.6(†88), 279.2(†60)
532.28 *4*	0.44 *7*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
532.3 *5*	0.239 *23*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
532.3 *5*	0.14 *3*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
532.3 *8*	0.027 *14*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
532.40 *18*	0.51 *7*	^{89}Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
532.40 *5*	0.88 *6*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
532.4 *6*	†3.22 *19*	^{201}Po(8.9 m)	967.4(†100.0), 964.3(†85), 411.9(†33.0)
532.49 *10*	0.18	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
532.49 *4*	0.0040 *8*	^{179}Lu(4.59 h)	214.335(11.3), 214.930(0.46), 123.3790(0.45)
532.5 *1*		^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
• 532.5 *2*	0.034 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
532.54 *11*	0.24 *4*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
532.6 *1*	4.45 *25*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
532.63 *6*	0.39 *5*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
• 532.66 *10*	0.270 *22*	^{69}Ge(39.05 h)	1107.01(36), 574.17(13.3), 872.14(11.9)
532.68 *8*	0.109 *11*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
532.7 *4*	0.24 *7*	^{78}Ga(5.09 s)	619.40(77), 1186.42(20.1), 567.06(18.2)
532.7 *3*	2.52 *25*	^{118}Ag(2.0 s)	487.77(57), 677.13(53), 1058.39(14.8)
532.71 *14*	0.6	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
532.75 *7*	0.002	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
532.77 *6*	1.35 *16*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
532.8 *2*	2.1	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
532.8 *3*	†7	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
532.82 *15*	†4.3 *4*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
532.9 *2*	2.76 *23*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
532.9 *8*		^{144}Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
532.91 *23*	0.63 *9*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
532.97 *11*	0.144 *13*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
533.0 *5*	†0.6 *3*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
533.0 *4*	0.21 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
533.0	0.08	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
• 533		^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
533.1 *5*	0.05 *3*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
533.1 *1*	0.17 *7*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
• 533.1 *2*	0.0095 *6*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
533.1 *3*	†15.2 *15*	^{132}Pr(1.6 m)	325.5(†100), 496.9(†25), 822.4(†17.3)
533.1 *3*	0.063 *25*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
533.10 *5*	9.4 *9*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
533.1 *8*	†44	^{178}Os(5.0 m)	968.7(†100), 1331.1(†94), 594.6(†72)
533.1 *2*	0.29	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
533.1 *5*	1.13 *6*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
533.1 *1*	0.0021 *3*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
533.12 *14*	0.021 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
• 533.13 *3*	0.0113 *18*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
• 533.14 *12*	0.087 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
533.16 *15*	0.067 *20*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
• 533.2 *2*	0.0189 *16*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
533.20 *4*	0.091 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
533.21 *16*	†24 *4*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
533.23 *16*	0.065 *22*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
533.3 *1*	1.294 *23*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
• 533.3 *2*	0.219 *17*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
533.3 *5*	†5.2 *13*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
• 533.34 *15*	0.034 *3*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
533.35 *40*	0.016 *5*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
533.4 *3*	†5.86 *22*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
533.4 *4*	†2.4 *6*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
• 533.426 *8*	0.044 *17*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
533.5 *3*	0.050	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
533.5 *7*	0.9 *3*	^{181}Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
533.51 *11*	0.400 *24*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
• 533.56 *6*	0.085 *7*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 533.6 *2*	0.0033 *16*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
533.66 *18*	0.29 *4*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
533.69 *8*	0.19 *2*	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
• 533.7 *4*	0.0014 *5*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
533.7 *1*	0.083 *19*	^{146}La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
533.7 *2*	†0.13 *5*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
533.7 *4*	0.050 *14*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
533.8 *6*	0.0049 *16*	^{63}Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
533.8 *4*	5.18 *7*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
533.8 *5*	1.27 *22*	^{174}Re(2.40 m)	243.4(37), 113.0(19.8), 1002.9(5.62)
533.82 *9*	12.3 *4*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
533.82 *17*	0.06 *3*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
533.87 *13*	†6	^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
533.9 *1*	0.077 *3*	^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
533.9 *3*	0.69 *23*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
533.9 *1*	0.42 *5*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
533.9 *2*	0.15	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
533.94 *12*	†36 *5*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
534.0 *6*	0.015 *6*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
534.0 *2*	†8.5 *17*	^{155}Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
534.0 *3*	0.021 *10*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
534.0 *4*	>0.016	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
534.04 *6*	0.087 *20*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
534.1 *1*	0.34 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
534.1 *2*	0.34 *5*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
534.1	0.5	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
534.1 *1*	0.082 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
534.11 *14*	1.8 *5*	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
534.2 *3*	0.09	^{113}Pd(93 s)	95.74(3.3), 643.7(3.0), 739.63(2.4)
534.2 *6*	0.53 *16*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
534.2 *3*	†10.5 *4*	^{201}Po(8.9 m)	967.4(†100.0), 964.3(†85), 411.9(†33.0)
• 534.21 *20*	0.013 *6*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
534.22 *25*	0.67 *9*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
• 534.248 *7*	0.0430 *10*	^{152}Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
534.248 *7*	†0.9 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
• 534.29 *7*	0.125 *19*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 534.295 *4*	3.07 *3*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
534.3 *1*	†3.31 *25*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
• 534.318 *11*	66.6 *3*	^{156}Tb(5.35 d)	199.2132(40.9), 1222.36(31.00), 88.9667(17.7)
534.335 *88*	0.12 *3*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
• 534.38 *7*	0.28 *3*	^{148}Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 534.38 *7*	0.101 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
534.4 *4*	0.85 *9*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
534.40 *23*	†16.8 *20*	^{184}Tl(11 s)	366.51(†100), 286.80(†39), 340.0(†25)
534.5 *1*	0.32 *8*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
• 534.5 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
534.5 *6*	0.23 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
534.5 *1*	†16.5 *2*	^{200}At(43 s)	665.9(†100), 611.1(†85.0), 484.5(†49.8)
• 534.546 *15*	0.0211 *9*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
534.6 *4*	0.54 *14*	^{72}Cu(6.6 s)	652.4(68), 1004.6(12.0), 1657.7(10.1)
534.6 *3*	28.4 *23*	^{112}Rh(6.8 s)	348.70(87), 560.5(49), 1098.6(39)
534.6 *1*	0.0044 *13*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
534.60 *20*	0.19 *4*	^{157}Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
534.60 *20*	0.41 *9*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
534.6 *3*		^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 534.65 *15*	0.0094 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
534.67 *4*	0.079 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
534.7 *2*	0.98 *6*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
• 534.72 *7*	0.033 *4*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
534.730 *7*	1.90 *15*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
534.758 *7*	0.018 *9*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
534.796 *10*	0.0500 *8*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
534.8 *5*	0.19	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
534.80 *6*	1.35 *6*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
534.8 *3*	†90.2 *36*	^{233}Pu(20.9 m)	235.4(†100), 500.3(†38.6), 688.1(†33.3)
534.88 *4*	1.05 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
534.9 *4*	0.72 *13*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
534.90 *2*	13.2 *7*	^{204}Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
534.99 *14*	0.0011 *5*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
535.0 *1*	0.41 *4*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
535.0 *3*	0.20 *3*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
535.0 *2*	<0.1	^{104}Mo(60 s)	68.8(55), 69.7(17.8), 36.3(14)
535	0.12 *4*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
535.0 *2*	†10 *3*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
535.0 *4*	0.10 *5*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
535.0 *1*	1.14 *9*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
535.0 *2*	0.68 *6*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
535.0 *2*		^{190}Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
• 535.0 *12*	†0.0063 *19*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
535.01 *14*	0.0013	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
535.02 *15*	0.79 *12*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
535.09 *18*	1.8 *5*	^{18}N(624 ms)	1981.95(83.2), 821.76(49.0), 1651.61(48.9)
535.1 *1*	14.7 *11*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 884.4(10.9)
535.11 *6*	0.17 *3*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
• 535.143 *9*	0.293 *7*	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
535.15 *5*	2.04 *25*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
535.2	0.20 *12*	^{148}Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
535.2 *5*	0.36 *9*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
535.25 *20*	†4 *1*	^{163}Hf(40.0 s)	70.98(†100), 62.14(†64), 45.39(†48)
535.25 *12*	0.14 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
535.3 *10*	0.34 *9*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
535.30 *10*	10.6 *6*	^{102}Zr(2.9 s)	599.60(13.9), 64.50(8.9), 156.60(2.92)
535.33 *12*	0.44 *3*	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
535.35 *15*	3.3 *6*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
535.4 *3*	0.37 *8*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
535.4 *3*	0.51 *5*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
535.4 *2*	†4.8	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
535.4 *3*	†68 *14*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
535.42 *14*	0.29 *7*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
535.5 *6*	0.10 *6*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
535.5 *3*	2.3 *3*	^{165}Tb(2.11 m)	1178.53(13.2), 538.51(7.2), 1292.05(7.0)
535.5 *5*	†1.0	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
535.5 *3*	†0.52 *6*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
535.5	>0.013	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 535.53 *4*	0.25	^{210}Bi(3.04×10^6 y)	265.832(50), 304.896(28), 649.42(3.8)
535.577 *4*	0.114 *18*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
535.60 *3*	45.7 *1*	^{100}Nb(1.5 s)	528.24(9.1), 159.547(8.8), 1022.5(4.9)
535.60 *3*	97.0 *22*	^{100}Nb(2.99 s)	600.5(65.0), 1280.6(23.8), 967.1(19.3)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
535.6 *2*	0.6	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
• 535.6 *2*	0.00059 *10*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
535.61 *18*	3.46 *13*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
535.62 *6*	0.300 *22*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 535.642 *21*	0.00025 *5*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
535.7 *2*	0.14 *3*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
535.7 *4*	0.007 *4*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
535.7 *5*	†4.8	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
535.7 *2*	†2.0 *6*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
535.7 *2*	†4.0 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
535.71 *7*	0.0044 *24*	^{183}Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
• 535.78 *8*	0.41 *4*	^{96}Tc(4.28 d)	778.224(100), 849.929(98), 812.581(82)
535.8 *5*	>0.16	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
535.8 *5*	†9 *2*	^{119}Xe(5.8 m)	231.8(†100), 98.5(†95), 461.5(†91)
• 535.897 *12*	0.0115 *6*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 535.897 *12*	0.048 *3*	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
535.9 *3*	0.189 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
• 535.95 *15*	0.0094 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
536.0 *6*	0.035 *13*	^{116}In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
536.0	0.26	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
536.0 *4*	0.017 *8*	^{152}Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
536.0 *4*	2.4 *5*	^{166}Ta(34.4 s)	158.5(53), 311.8(28.2), 810.1(9.8)
536.0 *4*	1.6 *5*	^{166}Ta(34.4 s)	158.5(53), 311.8(28.2), 810.1(9.8)
536.0 *1*	†7.7 *8*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
• 536		^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
536 *10*	>0.015	^{243}Bk(4.5 h)	187.1(0.060), 146.4(0.012), 41(0.006)
536.05 *3*	0.21 *3*	^{182}Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
536.09 *3*	99	^{130}I(12.36 h)	668.54(96), 739.48(82), 418.01(34.2)
536.09 *3*	16	^{130}I(9.0 m)	586.05(1.07), 1614.10(0.447), 1122.15(0.168)
536.09 *3*	3.8 *4*	^{130}Cs(29.21 m)	586.05(0.47), 894.5(0.39), 1614.10(0.26)
536.09 *3*	†100 *2*	^{130}Cs(3.46 m)	470.8(†8.6), 206.6(†1.7), 510.35
536.1 *1*	0.81 *7*	^{108}In(39.6 m)	632.96(76), 1986.8(12.4), 3452.2(9.2)
536.1 *2*	†12.4 *13*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
536.1 *5*	8.0 *9*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
536.11 *21*	1.31 *18*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
536.12 *5*	14.0 *11*	^{99}Sr(0.269 s)	125.118(16.1), 1198.12(9.2), 2279.42(7.6)
• 536.15 *10*	0.026 *6*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
• 536.194 *19*	0.64 *4*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
536.2 *4*	6.6 *10*	^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 575.4(6.3)
536.2 *3*	0.5 *3*	^{164}Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
536.38 *16*	0.50 *6*	^{148}La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
536.4 *10*	0.34 *9*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
536.4 *1*	0.46 *4*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
536.4 *3*	0.052 *5*	^{112}Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
536.4 *3*	0.90 *8*	^{123}In(5.98 s)	1130.5(63), 1019.7(32), 618.8(2.6)
536.48 *8*	0.83 *9*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
536.6 *2*	†67 *2*	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 656.0(†58)
536.6	0.047 *21*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
536.6 *1*	0.095 *10*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
536.6 *3*	0.43 *9*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
536.6 *3*	†15.9 *25*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
536.67 *3*	0.127 *3*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
536.680 *11*	12.7 *4*	^{184}Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 536.680 *11*	3.30 *5*	^{184}Re(169 d)	252.848(10.7), 216.548(9.43), 920.932(8.14)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
536.74 *7*	6.11 *20*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
536.74 *15*	0.21 *3*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
536.78 *18*	0.00156 *5*	^{159}Gd(18.479 h)	363.55(11.4), 58.00(2.15), 348.16(0.234)
536.8 *2*	0.152 *20*	^{183}Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
536.9 *2*	3.5 *10*	^{151}Er(23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
536.9 *2*	†1.06 *18*	^{230}Ra(93 m)	72.0(†100), 63.0(†35.4), 202.8(†27.3)
536.94 *20*	0.055 *23*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
537.0	23 *2*	^{145}Tb(29.5 s)	257.8(39), 987.8(37), 1446.8(15)
537.0 *2*	0.067 *17*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
537.0 *3*	0.0054 *9*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 537.0 *3*	†0.069 *12*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
537.03 *16*	0.55 *13*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
537.08 *5*	1.99 *25*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
537.1 *3*	0.008 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
• 537.171 *29*	0.073 *7*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
537.2 *2*	0.070 *12*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
537.2 *1*	0.082 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
537.22 *9*	0.252 *21*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
• 537.22 *16*	0.0024 *8*	^{147}Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
537.225 *18*	1.33 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 537.261 *9*	24.39 *7*	^{140}Ba(12.752 d)	29.9640(14.1), 162.660(6.21), 304.849(4.30)
537.293 *13*	0.419 *14*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
537.3 *2*	†2.1 *4*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
537.4 *3*	0.15 *5*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
• 537.45 *4*	30.5 *3*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
537.5 *5*	†5.0 *20*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
537.5 *2*	†4.7 *4*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
537.5 *2*	†24.8 *15*	^{201}Po(8.9 m)	967.4(†100.0), 964.3(†85), 411.9(†33.0)
537.58 *20*	1.01 *13*	^{78}Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
537.6 *3*	1.3 *4*	^{72}Br(78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
537.60 *4*	2.23 *16*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
537.6 *2*	0.031 *5*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
537.6	0.7	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
537.6 *5*	0.28 *8*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
• 537.6 *5*		^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
537.64 *4*	8.2 *3*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
• 537.65 *11*	0.045 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
537.69 *5*	1.18 *8*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
537.73 *10*	0.036 *7*	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
537.76 *13*	0.117 *16*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
• 537.76 *6*	0.00030 *6*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
• 537.79 *15*	0.0016 *6*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
537.9 *2*	1.38 *8*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
• 537.98 *6*	0.194 *7*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
538.0 *2*	0.066 *10*	^{141}Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
• 538.0 *10*	0.073 *21*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
538.0 *1*	†14.9 *15*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
538.0 *3*	0.38 *4*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
• 538.06 *8*	0.194 *22*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
538.1 *3*	>0.16	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
• 538.1 *1*	>0.0022	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
• 538.1	>0.0011	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
538.11 *10*	0.58 *9*	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
538.11 *10*	0.0110 *9*	^{236}Np(22.5 h)	642.35(0.9), 687.59(0.250), 104.234

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 538.11 *10*	1.47×10^{-7} *12*	^{240}Pu(6563 y)	45.242(0.0450), 104.234(0.00708), 160.308(0.000402)
538.15 *6*		^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 538.15 *3*	0.00033 *20*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
538.16 *5*	0.97 *7*	^{128}In(0.84 s)	1168.80(40), 935.20(6.5), 1089.53(6.0)
538.18 *25*	0.27 *4*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
538.20 *8*	0.049 *3*	^{81}Se(18.45 m)	275.988(0.7), 290.03(0.55), 828.27(0.280)
538.2 *2*	0.058 *4*	^{113}Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
538.2 *2*	8.1 *9*	^{135}Pr(24 m)	296.12(24), 82.64(13.7), 213.45(13.0)
538.2 *3*	4.4 *17*	^{152}Ho(161.8 s)	613.8(73), 613.8(14), 1098.0(12)
538.2 *15*	0.006 *3*	^{219}Rn(3.96 s)	271.23(10.8), 401.81(6.37), 130.59(0.119)
538.24 *7*	†77 *4*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 618.314(†72)
• 538.29 *6*	0.0042 *6*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
538.3 *2*	0.182 *25*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
538.3 *5*	0.047	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
538.33 *28*	0.19 *7*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
538.35 *24*	0.015 *3*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
538.4 *4*	0.31 *16*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
538.4 *3*	40 *7*	^{116}Rh(0.9 s)	340.5(90), 639.4(52), 726.2(38)
538.4 *1*	1.27 *10*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
538.4 *3*	†8.1 *19*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
538.4 *2*	†0.8 *4*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
538.400 *16*	0.66 *14*	^{244}Am(10.1 h)	743.971(66), 897.848(28), 153.863(16)
• 538.5 *5*	0.0066 *19*	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
538.5 *7*	0.144 *20*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
538.5 *1*	†34.0 *23*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 138.5(†13.5)
538.5 *2*	8.4 *6*	^{141}Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
• 538.5 *2*	$\dagger1.93\times10^{6}$	^{208}Po(2.898 y)	291.7($\dagger9\times10^{06}$), 570.4($\dagger5\times10^{06}$), 601.6($\dagger4.1\times10^{6}$)
538.51 *5*	7.2 *6*	^{165}Tb(2.11 m)	1178.53(13.2), 1292.05(7.0), 1664.80(6.4)
538.53 *12*	0.16 *3*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
538.54 *5*	0.382 *12*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
538.55 *5*	0.160 *7*	^{59}Cu(81.5 s)	1301.46(14.78), 877.97(11.40), 339.411(7.97)
538.56 *4*	†12.7 *9*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
538.56 *4*	6.0 *4*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
538.67 *6*	0.708 *23*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
538.68 *5*	0.82 *14*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
538.7 *10*	0.103 *22*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
538.7 *4*	0.005	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
538.76 *4*	1.89 *22*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
538.8 *4*	2.64 *19*	^{113}Rh(2.72 s)	189.7(17.0), 409.3(15.9), 219.6(3.88)
538.8 *1*	†0.35 *5*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
538.8 *5*	0.24 *12*	^{197}Pb(8 m)	385.85(50), 761.14(13.3), 375.48(12.8)
• 538.8 *2*	3.0×10^{-7} *2*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
538.9 *4*	0.29 *7*	^{125}Cd(0.65 s)	436.29(37), 1099.48(22.3), 2147.19(19.1)
538.9 *2*	1.95 *20*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
• 538.90 *5*	13.7 *7*	^{191}Pt(2.9 d)	409.44(8.0), 359.90(6.0), 82.407(4.9)
538.93 *10*	0.080	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
539 *1*	0.008 *3*	^{113}Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
• 539.03 *10*	0.0211 *21*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
539.03 *6*		^{193}Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
539.03 *6*	1.0 *3*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 539.05 *15*	0.0242 *22*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
539.1 *3*	0.050 *13*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
539.10 *4*	1.40 *4*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
• 539.1 *5*	0.010 *5*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
539.11 *3*	1.7	^{182}Hf(61.5 m)	942.80(18.8), 799.64(9.4), 114.3152(6.2)
539.20 *20*	†15 *3*	^{106}Nb(1.02 s)	171.548(†100), 350.70(†39), 714.00(†30)
539.2 *2*	1.30 *13*	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
539.20 *8*	†15	^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
539.2 *3*	1.7 *2*	^{200}Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
539.21 *25*	0.22 *6*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
539.22 *13*	0.50 *11*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
539.224 *7*	0.115 *14*	^{184}Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 539.224 *7*	0.327 *17*	^{184}Re(38.0 d)	903.279(37.9), 792.071(37.5), 111.208(17.1)
• 539.224 *7*	0.0297 *16*	^{184}Re(169 d)	252.848(10.7), 216.548(9.43), 920.932(8.14)
539.29 *10*	0.114 *10*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
539.3 *7*	0.67 *7*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
539.33 *14*	0.33 *3*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
• 539.37 *15*	0.094 *14*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
539.4 *3*	0.21 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
539.4 *3*	1.9 *11*	^{114}Rh(1.85 s)	332.9(56), 361.9(20), 694.4(13)
539.4 *5*	0.65 *10*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
539.4 *2*	†22	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
539.4 *5*	†66 *12*	^{190}Bi(6.3 s)	773.8(†100), 455.0(†94), 506.2(†92)
539.49 *4*	30.8 *7*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 242.19(9.9)
539.50 *8*	0.66 *8*	^{90}Br(1.92 s)	707.05(38.0), 1362.32(11.2), 655.17(7.7)
539.5 *5*	†0.45 *15*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
539.5 *7*	0.48 *19*	^{178}Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
539.50 *15*	1.32 *11*	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
539.58 *20*	†4	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
539.59 *5*	7	^{100}Tc(15.8 s)	590.83(5.7), 1512.1(0.44), 822.6(0.068)
539.59 *5*	78.4 *24*	^{100}Rh(20.8 h)	2376.1(35.3), 1553.4(21), 822.6(20.1)
539.59 *5*	5900 *5*	^{100}Rh(4.6 m)	687.0(†3500), 1827.2(†1410), 1535.6(†1118)
539.59 *4*	1.35 *9*	^{204}Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
539.599 *9*	38	^{233}Ac(145 s)	522.757(56), 16.8
539.6 *4*	0.23 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
539.6 *3*	0.96 *12*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
539.64 *8*	0.156 *20*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
539.7 *2*	0.205 *25*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
539.70 *7*	†10.0 *7*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
539.75 *19*	52	^{136}Pr(13.1 m)	552.16(76), 1092.3(18.5), 461.0(7.7)
539.75 *25*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
539.77 *8*	0.29 *3*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
539.80 *8*	0.0060 *6*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
539.87 *11*	†65 *7*	^{168}Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
539.9 *6*	†2.4 *5*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
539.9 *1*	20	^{211}Fr(3.10 m)	918.3(11), 281(6.8), 983(4.0)
539.9 *2*	†20 *3*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
539.93 *25*	†16 *4*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
540.0 *1*	1.9 *4*	^{73}Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
540.0 *5*	100	^{84}Nb(12 s)	723.0(23)
540.0 *1*	0.17 *2*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
540.0 *3*	1.20 *11*	^{116}I(2.91 s)	679.1(8)
540 *1*	3.1	^{125}Cs(45 m)	526(24), 111.8(9), 412(5)
540.0 *4*	†0.9 *3*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
540.0 *21*	5.0 *4*	^{142}Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
540.0 *5*	0.24 *5*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
540 *2*	0.023 *8*	^{162}Ho(15.0 m)	80.660(8.0), 1319.3(3.8), 1372.8(0.81)
540.0 *2*	0.065 *9*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
540.04 *9*	0.22 *4*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
540.05 *20*	†16 *4*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
540.1 *5*	0.09 *3*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
540.1 *2*	0.48 *9*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
540.1 *3*	†8.7 *4*	^{201}Po(8.9 m)	967.4(†100.0), 964.3(†85), 411.9(†33.0)
540.12 *4*	5.3 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
• 540.15 *10*	0.206 *9*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
540.18 *6*	20	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 649.564(10.9)
• 540.187 *16*	1.40 *4*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 540.187 *16*		^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
540.238 *11*	0.369 *10*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
540.27 *13*	0.059 *11*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
540.3 *2*	0.28 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
540.3 *1*	†10.8 *13*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
• 540.3 *2*	5.0×10^{-6} *5*	^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
• 540.32 *27*	0.0019 *6*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
540.36 *5*	0.395 *12*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
540.363 *23*	7.7 *5*	^{132}La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
540.4 *3*	0.019 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
• 540.4 *3*	0.048 *8*	^{226}Ac(29 h)	230.37(27), 158.18(17.5), 72.20(0.56)
• 540.4 *3*	0.000035 *15*	^{230}U(20.8 d)	72.20(0.60), 154.23(0.125), 230.37(0.122)
540.45 *3*	0.0138 *5*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
540.5 *5*	0.46 *11*	^{148}Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
540.5 *2*	†248 *43*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
540.5 *2*	0.428 *13*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
540.50 *15*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
540.509 *10*	6.58 *23*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
540.516 *50*	0.0056 *6*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
• 540.55 *6*	0.086 *7*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
540.6 *3*	0.049 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
540.61 *19*	0.28 *16*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
540.61 *5*	9.3 *9*	^{237}Pa(8.7 m)	853.6(34), 865.1(15.5), 529.26(14.9)
540.697 *10*	0.49 *5*	^{109}Rh(80 s)	326.868(54), 426.135(7.7), 178.034(7.6)
540.7 *6*	0.026 *5*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
540.7 *5*	>0.26	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
540.7 *3*	3.1	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
540.76 *10*	0.027 *3*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
540.8 *4*	0.25 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
540.8 *6*	0.022 *13*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
540.825 *25*	7.6 *4*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
540.9 *5*	0.16 *3*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
540.9 *2*	†21.8 *8*	^{170}Ho(43 s)	812.3(†100.0), 1894.5(†45.2), 78.6(†40)
540.930 *7*	0.047 *6*	^{200}Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
• 540.930 *7*	0.026 *17*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
540.96 *9*	0.261 *16*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
540.98 *12*	0.043 *9*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
541.0 *1*	0.739 *23*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
541.00 *6*	12.7 *7*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
541.0 *3*	0.8 *3*	^{129}Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
541.0 *3*	0.040 *12*	^{138}Nd(5.04 h)	325.76(2.84), 199.50(0.53), 341.65(0.40)
541.0 *4*	†2.8 *4*	^{198}Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)
541.06 *12*	5.17 *14*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
541.09 *10*	2.9 *4*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
541.2 *3*	5.8 *6*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 541.2 *1*	0.188 *6*	^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
541.20 *6*	39.2 *8*	^{144}La(40.8 s)	397.440(94.3), 844.8(22.3), 585.02(7.97)
541.2	†1.6	^{144}Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
541.2 *4*	0.94 *13*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
541.24 *12*	0.092 *11*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
541.3 *2*	0.33 *4*	^{108}Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
541.32 *21*	0.060 *10*	^{93}Mo(6.85 h)	949.82(0.120), 689.07(0.070), 385.31(0.060)
• 541.35 *8*	0.090 *19*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 541.4 *1*	0.15 *3*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
541.4 *2*	0.0045 *12*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
541.4 *2*	†0.73 *11*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
541.5 *2*	0.41 *7*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
541.5 *1*	0.0046 *18*	^{136}La(9.87 m)	818.514(2.3), 760.50(0.289), 1322.76(0.264)
• 541.5 *5*	0.0217 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
541.5 *5*	2.4 *6*	^{164}Ta(14.2 s)	211.05(74), 376.8(22), 605.0(14)
541.5 *3*	0.25	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
541.51 *14*	0.12 *4*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
541.6 *3*	1.3 *3*	^{112}Rh(3.8 s)	348.70(33), 388.20(4), 777.5(3.6)
541.6	0.083 *23*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
541.65 *15*	1.06 *18*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
541.67 *18*	0.021 *3*	^{85}Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
541.70 *20*	0.30 *3*	^{73}Ga(4.86 h)	297.32(79.8), 325.70(11.17), 739.42(4.23)
541.7 *5*	0.8 *3*	^{185}Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
• 541.7 *1*	0.37 *4*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
541.7 *10*	0.041 *17*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
541.8 *4*	0.020 *3*	^{123}Sn(40.06 m)	160.33(86), 381.4(0.042), 552.5(0.0103)
541.89 *6*	0.72 *4*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
• 541.9 *1*	0.0037 *5*	^{57}Ni(35.60 h)	1377.63(81.7), 127.164(16.7), 1919.52(12.26)
541.9 *9*	0.06 *3*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
541.9	0.6	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
541.9 *3*	0.62 *10*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
541.9 *3*	0.24 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
• 541.9 *5*	2.4×10^{-5} *3*	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
542 *2*	0.073 *7*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
542.0 *5*	0.67 *11*	^{148}Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
542.0		^{154}Tm(3.30 s)	625, 601.3, 560.0
542.00 *16*	0.43 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
542.02 *9*	†11	^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
542.04 *21*		^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
542.06 *3*	0.562 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
542.1 *2*	0.21 *6*	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
542.16 *5*	1.05 *8*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
542.2 *5*	0.030 *12*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
542.21 *5*	0.260 *25*	^{199}Tl(7.42 h)	455.46(12.4), 208.20597(12.3), 247.26(9.3)
542.24 *3*	0.059 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
542.27 *7*	32.6 *18*	^{79}Ge(39.0 s)	230.62(61), 755(18), 634.00(13)
542.3 *22*	†0.85 *9*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 542.4 *4*	0.000129 *23*	^{75}Se(119.779 d)	264.6584(58.50), 136.0008(58.3), 279.5441(24.79)
542.4 *1*	†1.6 *2*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
542.4 *4*	1.12 *22*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 542.40 *20*	0.015 *4*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
• 542.474 *17*	0.004 *2*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
542.5 *2*	0.90 *16*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
• 542.5 *5*	0.017 *11*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
542.50 *7*	0.121 *20*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
542.5 *6*	0.22	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 542.57 *3*	4.5 *3*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
542.6 *5*	0.07 *3*	^{61}Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
542.6 *4*	0.9 *5*	^{97}Y(1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
542.6 *2*	0.60 *10*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
542.6 *1*	†3.85 *24*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
• 542.60 *20*	0.0028 *3*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
542.60 *13*	†22.5 *15*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
542.6 *2*	1.2	^{201}Au(26 m)	517.0(0.83), 613.2(0.77), 167.43(0.64)
• 542.622 *11*	1.43 *8*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
542.7 *6*	>0.27	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
542.7 *1*		^{118}Ag(2.0 s)	487.77(57), 677.13(53), 1058.39(14.8)
542.7 *3*	10.9 *3*	^{251}Cm(16.8 m)	530.0(1.62), 389.7(1.28), 438.2(1.24)
542.71 *15*	0.027 *3*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
542.776 *17*	1.6 *3*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 484.501(11.3)
542.8 *10*	1.30 *7*	^{99}Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
542.8	†2.1 *3*	^{120}I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
• 542.82 *2*	0.073 *9*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
542.82 *21*	†3	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
542.872 *20*	52 *3*	^{116}Sb(60.3 m)	1293.54(100), 972.550(72), 407.351(42)
542.9 *5*	0.07 *3*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
542.9 *8*	0.041 *14*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
542.9		^{182}Hg(10.83 s)	129.3(†100), 217.7(†75), 413.5(†53)
542.9 *4*	0.14 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
542.92 *5*	0.040 *5*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
• 542.972 *25*	0.134 *7*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
542.993 *2*	15	^{199}Pt(30.80 m)	493.772(5.59), 317.056(4.95), 185.768(3.32)
543.0 *5*	0.31 *16*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
543.0 *4*	1.43 *15*	^{113}Rh(2.72 s)	189.7(17.0), 409.3(15.9), 219.6(3.88)
543.0 *3*	0.60 *6*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
543.0		^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
543 *1*	>0.17	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
543.05 *9*	0.13 *13*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
543.10 *8*	0.71 *8*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
543.1 *1*	0.24	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
543.14 *14*	0.0009 *4*	^{45}Ti(184.8 m)	720.22(0.154), 1408.6(0.085), 1662.4(0.041)
543.18 *11*	0.08	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
543.2 *4*	0.29 *3*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
543.2 *3*	0.29 *10*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
543.2 *3*	2.3	^{136}Te(17.5 s)	2077.9(22), 333.99(19), 578.75(18)
543.2 *2*	3.0 *8*	^{145}Ho(2.4 s)	339.8(15), 312.9(14.3), 334.1(13.5)
• 543.24	>0.0006	^{173}Lu(1.37 y)	272.105(21.2), 78.63(11.87), 100.724(5.24)
543.3 *2*	2.31 *16*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
• 543.3 *5*	2.9 *4*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
543.30 *6*	0.107 *13*	^{162}Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
543.3 *7*	†3.8 *9*	^{193}Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
543.31 *12*	0.2997 *22*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
543.4 *5*	4.2 *4*	^{90}Tc(49.2 s)	1054.3(100), 948.1(100), 944.7(36.6)
543.4	0.034	^{95}Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
543.4 *3*	†3.78 *23*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
543.40 *5*	0.09 *4*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
543.44 *3*	0.13 *13*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
543.5 *1*	0.0110 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
543.5 *5*	0.12 *6*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
543.50 *15*	0.27 *5*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
543.5 *5*	<0.00024	^{255}Fm(20.07 h)	81.477(0.81), 58.477(0.67), 80.92(0.27)
543.51 *9*	0.020 *5*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
543.58 *26*	0.087 *16*	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
543.6 *10*	0.045 *20*	^{90}Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
543.6 *2*	†29 *3*	^{130}Sn(1.7 m)	144.9(†100), 899.2(†49), 84.7(†42)
543.62 *6*	0.42 *3*	^{100}Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
543.62 *6*	6.3 *14*	^{100}Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
543.68 *6*	0.24 *10*	^{237}Pa(8.7 m)	853.6(34), 865.1(15.5), 529.26(14.9)
543.69 *3*	0.0731 *21*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
543.7 *2*	0.139 *14*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
543.7	0.14	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
543.7 *2*	†4.6 *5*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
543.8 *2*	0.40 *5*	^{117}Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
543.8 *1*	0.023 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
543.8 *1*	0.134 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
543.83 *10*	0.54 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
543.9 *1*	3.8 *3*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
543.9 *2*	†0.16 *5*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
543.9 *2*	5.7 *6*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
543.93 *25*	0.033 *7*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
543.93 *6*	0.033 *7*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
543.95 *12*	†3.2 *3*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
543.98 *10*	†3.59×10^3 *17*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
544.0 *3*	†3 *1*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
544.0 *1*	0.052 *5*	^{141}Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
544.0	0.018 *10*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
544.0	0.28 *4*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
544.0 *3*	0.04 *2*	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
544.1 *2*	0.16 *4*	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
544.1 *2*	†0.91 *8*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
544.2 *2*	†55	^{138}Eu(12.1 s)	346.6(†100), 685.4(†41), 399.0(†23)
544.2 *2*	5.0	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
544.2 *2*	>5.0	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
544.2 *3*	0.29 *3*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
• 544.24 *5*	0.829 *22*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 544.27 *6*	0.00248 *12*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
544.29 *4*	0.15 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
544.3 *1*	4.5 *18*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
544.3	0.026 *9*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
• 544.318 *8*	0.06 *3*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
• 544.39 *7*	0.036 *14*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
544.4		^{96}Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
544.4 *4*	0.35 *9*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
• 544.4 *6*	0.025 *9*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
544.41 *4*	1.213 *15*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 544.44 *2*	0.88 *8*	^{254}Es(39.3 h)	648.80(28.4), 693.79(24.3), 688.68(12.3)
544.49 *13*	0.092 *14*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
544.5 *4*	0.09 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
544.5 *1*	16.2 *16*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
544.5 *5*	0.019 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
• 544.55 *5*	0.0207 *9*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
544.58 *6*	0.0034	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 544.58 *6*		^{243}Am(7370 y)	74.664(68), 43.533(5.93), 117.84(0.57)
544.61 *16*	0.062 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 544.70 *20*	6.0×10^{-5}	^{115}Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
• 544.70 *20*	2.0×10^{-5}	^{115}Cd(44.6 d)	933.8(2.000), 1290.580(0.890), 484.470(0.290)
544.7 *3*	17.9 *9*	^{129}Sb(4.40 h)	812.8(43), 914.6(20.0), 1030.1(12.6)
544.7 *3*		^{129}Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
544.7		^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
544.7 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
544.73 *20*	0.29 *10*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
544.76 *6*	0.53 *6*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
544.8 *5*	0.9 *4*	^{97}Y(3.75 s)	3287.6(18.1), 3401.3(14.1), 1996.6(7.4)
544.8 *3*	3.38 *16*	^{109}Sb(17.0 s)	925.4(32), 1062.8(23.9), 664.5(20.1)
544.8 *4*	0.25 *12*	^{122}In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
• 544.82 *20*	0.0056 *12*	^{172}Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
544.87 *53*	0.09 *4*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
544.88 *1*	0.426 *14*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
544.89 *3*	5.77 *23*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
544.9	0.14	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
544.9 *3*	†0.016 *2*	^{213}Bi(45.59 m)	323.81(†0.16), 868.0(†0.012)
545 *5*	0.0059 *4*	^{61}Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
545.00 *20*	0.014 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
545.0 *4*	0.16 *8*	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
545.0 *1*	91	^{209}At(5.41 h)	781.9(83.5), 790.2(63.5), 195.0(22.6)
545.06 *5*	6.0 *3*	^{101}Tc(14.22 m)	306.85(88), 127.23(2.86), 184.10(1.69)
• 545.06 *5*	†6.1 *7*	^{101}Rh(4.34 d)	306.85(†115), 127.23(†0.85), 179.62(†0.77)
545.1 *3*	0.38 *5*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
545.1 *3*	†2.9	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
• 545.1 *3*	2.3×10^{-6} *2*	^{233}U(1.592×10^{5} y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
545.12 *3*	10.9 *16*	^{118}I(13.7 m)	605.71(86.0), 600.71(10.2), 1338.7(8.4)
545.12 *3*	2.3 *3*	^{118}I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
545.12 *11*	0.134 *12*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
545.2 *3*	†1.5 *3*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
545.2 *5*	0.13 *3*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
545.2 *2*	†5.7 *5*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
545.2 *10*	0.046 *17*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
545.23 *15*	1.14 *6*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
545.24 *20*	0.057 *8*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
545.29 *6*	1.69 *25*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
545.29 *12*	0.20 *5*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
545.300 *13*	3.02 *11*	^{78}As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
545.3 *1*	0.59 *8*	^{143}Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
545.4 *3*	0.33 *6*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
545.4 *3*	2.61 *22*	^{123}Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
545.4 *4*	2.33 *23*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
545.40 *16*	0.13 *4*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
545.4 *5*	0.14 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
545.4 *1*	†3.0 *20*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
545.4 *4*	0.00033 *15*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 545.4 *3*	†7×10^{03}	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^{9}), 33.195(†6000×10^{8})
545.5 *5*	0.064 *18*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
545.5 *1*	0.0044 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
545.5	†20	^{148}Cs(158 ms)	141.7(†100), 687.2(†23), 633.2(†19)
545.5	0.009	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
545.50 *17*	4.5 *5*	^{200}Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
545.51 *3*	26.0 *13*	^{76}Ga(32.6 s)	562.93(66), 1108.41(15.8), 431.0(9.2)
• 545.54 *2*	0.367 *23*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
545.6 *5*	1.5 *3*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
545.7		^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
545.7 *5*	†6 *3*	^{106}Nb(1.02 s)	171.548(†100), 350.70(†39), 714.00(†30)
545.7	0.30	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
545.7	0.57 *21*	^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
545.7 *5*	†16.0 *20*	^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
545.7 *5*	†0.63 *10*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
545.74 *11*	0.22 *4*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 545.75 *15*	0.00105 *11*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
545.8 *2*	4.6	^{199}Po(5.48 m)	246.0(28), 845.7(23), 206.7(5.1)
545.81 *7*	0.39 *3*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
545.834 *20*	0.162 *5*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
545.89 *6*	0.230 *14*	^{59}Cu(81.5 s)	1301.46(14.78), 877.97(11.40), 339.411(7.97)
545.9	†0.83 *8*	^{135}Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
545.9	2.30 *10*	^{150}Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
545.9 *3*	0.47 *7*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
545.9 *2*	†85 *5*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
545.91 *21*	0.32 *3*	^{70}Se(41.1 m)	49.51(35.8), 426.15(29), 376.65(9.43)
545.96 *11*	0.41 *4*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
546.0 *5*	1.5 *8*	^{120}In(46.2 s)	1171.3(96), 1023.1(55), 863.7(32.5)
546.00 *3*	0.652 *25*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
546.0 *2*	>0.047	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
546.0 *2*	†0.32	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
546.0 *10*	0.51 *17*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
546		^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
• 546.082 *14*	0.0144 *14*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
546.082 *14*	0.10 *4*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
546.082 *14*		^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
546.1 *5*	0.17 *4*	^{88}Nb(14.5 m)	1082.53(103), 1057.01(100), 671.20(64)
546.13 *3*	48.6 *15*	^{99}Zr(2.1 s)	469.140(55), 593.990(27.4), 461.70(11.0)
• 546.16 *22*	1.5×10^{-6} *4*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
546.2 *2*	0.0093 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
546.20 *14*	0.74 *4*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
546.25 *17*	0.337 *25*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
• 546.28 *9*	0.0035 *3*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
546.29 *3*	0.51 *3*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
546.290 *22*	0.98 *6*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
546.29 *9*	0.269 *16*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
546.31 *10*	14.3 *4*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 176.40(10.60)
546.4 *4*	0.35 *9*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
546.4 *1*	†11.6 *4*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
546.4 *3*	0.11 *4*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
546.4		^{157}Lu(5.0 s)	967.5, 949.8, 880.5
546.4 *2*	0.19	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
546.40 *23*	0.0012 *5*	^{195}Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
546.448 *20*	0.207 *13*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
546.448 *20*	0.038 *19*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 546.448 *20*	1.0×10^{-6} *6*	^{232}U(68.9 y)	57.762(0.200), 129.065(0.0686), 270.243(0.00316)
546.5 *10*	6.4 *21*	^{33}Na(8.2 ms)	1242.6(4.2), 704.3(3.7), 484.9(2.2)
546.5 *5*	0.163 *22*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
546.5 *3*	0.13 *3*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
546.5 *2*	0.34 *14*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
546.5 *2*	14.2 *13*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
546.5 *4*	0.53 *3*	^{143}Gd(39 s)	258.81(75), 204.77(19.4), 463.7(9.9)
546.5	0.009	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
546.5	†2.7	^{198}Bi(693 s)	1063.5(†100), 197.6(†80), 562.4(†79)
546.53 *10*	0.5	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
546.557 *16*	7.20 *9*	^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
546.6 *3*	0.016 *3*	^{85}Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
546.66 *6*	14.5	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 1440.24(12.2)
546.7 *2*	1.19 *5*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
546.7 *4*	0.042 *9*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
546.7 *10*	0.14	^{111}Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
• 546.7 *2*	0.051 *10*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
546.7	4.5	^{140}I(0.86 s)	376.657(91), 457.630(59), 936.7(16)
• 546.7 *5*	0.00087 *20*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
546.77 *11*		^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
546.8 *8*	9.3 *6*	^{90}Tc(49.2 s)	1054.3(100), 948.1(100), 944.7(36.6)
546.8 *4*	0.15 *8*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
546.802 *5*	0.159 *17*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 546.802 *5*	2.552 *21*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
546.86 *8*	0.227 *20*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
546.86 *27*	†15 *3*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
546.894 *12*	0.0304 *14*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
546.9 *5*	0.030 *12*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
546.90 *20*	42.4 *15*	^{110}Rh(28.5 s)	373.80(91), 687.70(25.8), 838.22(25)
546.90 *15*	0.38	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
546.9 *3*	0.084 *12*	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
546.9 *7*	0.46 *4*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
546.9 *4*	0.280 *14*	^{233}Np(36.2 m)	312.17(0.7), 298.89(0.44), 506.5(0.154)
546.97	0.17	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
547.00 *8*	0.368 *25*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
547.0 *3*	2.8 *3*	^{147}Tb(1.7 h)	1152.4(100), 694.4(43), 139.9(27.46)
547.0 *3*	†0.8 *3*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
547.0 *4*	0.46 *9*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
547.0 *2*	0.33 *9*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
547	†20	^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
547.001 *5*	10.76 *23*	^{138}Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
547.04 *25*	0.0053 *13*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
547.06 *2*	4.67 *8*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
547.1 *3*	0.28 *6*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
547.1 *5*	0.0010 *5*	^{141}La(3.92 h)	1354.52(1.64), 1693.3(0.074), 2267.0(0.0413)
547.1	0.016 *8*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
547.1 *4*	0.032 *7*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 547.17 *7*	0.00161 *12*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
547.17 *7*	4.44 *25*	^{164}Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
547.2 *2*	1.14 *8*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
547.20 *7*	0.24	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
547.2	†40	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
547.21 *31*	0.040 *14*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
• 547.25 *15*	0.0385 *18*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
547.3	†1.5	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
• 547.3 *3*	0.30 *5*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
547.32 *70*	0.12 *3*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
547.34 *5*	0.67 *4*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
547.35 *8*	0.0095 *12*	^{152}Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
547.37 *7*	2.0 *3*	^{100}Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
547.4	0.010 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
547.4 *1*	†100	^{153}Yb(4.2 s)	674.1(†61), 369.6(†32), 908.8(†25)
547.4 *3*	†1.6 *3*	^{169}Ta(4.9 m)	511.0(†20.6), 28.80(†18.3), 192.4(†8)
547.43 *3*	0.0125 *21*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
547.43 *6*	0.38 *8*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
547.5 *2*	0.9 *4*	^{98}Y(0.548 s)	1223.0(36.0), 2941.3(16.7), 1590.9(14.7)
547.5 *1*	5.23 *26*	^{138}Pr(2.12 h)	1037.8(101), 788.742(100), 302.7(80)
547.5 *2*	†1.7 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
547.5 *6*	0.13 *3*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
547.51 *35*	0.41 *9*	^{174}W(31 m)	35.42(14.1), 428.83(12.7), 328.68(9.5)
• 547.54	>0.00029	^{172}Er(49.3 h)	610.062(44.2), 407.338(42.1), 68.107(3.29)
547.6 *3*	2.7 *3*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
547.69 *21*	†6.7 *11*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
547.7 *1*	20	^{51}Ca(10.0 s)	861.6(35), 1394.0(27), 1167.5(23)
547.7 *5*	†5.7 *5*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
547.7 *1*	2.36 *18*	^{139}Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
547.80 *30*	0.27 *4*	^{115}Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
547.8 *5*	0.017 *4*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
547.80 *19*	0.10	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
547.84 *10*	1.14 *8*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
547.87 *15*	0.112 *14*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
547.9 *4*	0.113 *13*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
547.9 *3*	0.690 *18*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
547.9 *4*	†31 *8*	^{180}Yb(2.4 m)	172.9(†100), 375.0(†87), 419.8(†56)
547.93 *12*	†11.8 *12*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
547.96 *14*	0.087 *13*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
548		^{110}Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
548.0 *1*	0.0031 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
548.0 *2*	0.152 *5*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
548 *1*	†12	^{178}Os(5.0 m)	968.7(†100), 1331.1(†94), 594.6(†72)
548.0 *3*	0.33 *3*	^{230}Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
• 548	0.008	^{252}Es(471.7 d)	52.33(0.55), 64.42(0.274), 418.5(0.220)
548.1 *3*	0.58 *8*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
548.1 *3*	†6	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
548.1 *3*	0.028 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
548.1 *10*	0.14 *3*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
548.10 *9*	0.0020	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
548.3 *4*	0.19 *4*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
548.3 *1*	14.0 *8*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
548.3 *3*	0.018 *5*	^{183}Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
548.35 *11*	15.3 *8*	^{62}Zn(9.186 h)	596.56(26), 40.84(25.5), 507.60(14.8)
548.36 *10*	23.1 *24*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 70.75(22.6)
548.4 *6*	0.50 *22*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
548.4	0.06	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
• 548.40 *11*	0.124 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
548.4 *7*	0.10 *3*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
548.4 *8*	†1.7 *9*	^{160}Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
548.4 *4*	0.13 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
548.4 *3*	0.037 *9*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
548.5 *1*	0.35	^{113}Ag(68.7 s)	316.3(18), 392.3(11), 298.58(10)
548.54 *20*	8.5 *6*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
• 548.546 *25*	0.342 *19*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
548.59 *11*	0.041 *14*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
548.62 *9*	0.0270 *25*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
548.65 *5*	0.56 *3*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
548.70 *17*	0.65 *7*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
548.7 *3*	1.65 *9*	^{91}Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
548.70 *20*	3.6 *6*	^{115}Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
548.7 *3*	0.65 *12*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
548.73 *15*	0.024 *4*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
548.78 *13*	0.49 *3*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
548.8 *3*	0.21 *5*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
548.8 *3*	3.96 *7*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
548.83 *6*	0.44 *7*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
• 548.945 *8*	3.40 *3*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 39.578(2.97)
548.96 *30*	0.21 *4*	^{124}In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
548.96 *30*	1.20 *20*	^{124}In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
548.99 *2*	1.15 *18*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
549.0 *2*	†4.61 *27*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
549.0 *3*	0.17 *4*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
549 *1*	2.1 *5*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
549.0 *1*	0.787 *11*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
549.0 *5*	0.5 *4*	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
549.02 *4*	0.471 *14*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
549.02 *4*	0.106 *7*	^{81}Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
549.02 *4*	0.062 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
549.08 *8*	2.75 *17*	^{45}Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
549.1	0.46	^{43}Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
549.10 *20*	1.5 *3*	^{102}Zr(2.9 s)	599.60(13.9), 535.30(10.6), 64.50(8.9)
549.1 *3*	0.25 *5*	^{127}In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
549.1 *1*	2.7 *3*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
549.1 *3*	5.1 *14*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
• 549.2 *5*	0.07 *6*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
549.2 *5*	†0.80 *10*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
549.2 *1*	0.32 *9*	^{236}Th(37.5 m)	110.8(4.2), 646.6(0.72), 196.0(0.69)
549.2 *6*	0.034 *17*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
549.23 *7*	2.31 *20*	^{132}Sn(39.7 s)	340.53(49), 85.58(48.2), 899.04(44.8)
549.3 *3*	0.34 *15*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
549.3 *4*	†1.1 *3*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
549.30 *20*	0.28 *7*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
549.34 *12*	0.049 *10*	^{97}Nb(72.1 m)	658.08(98), 1024.49(1.09), 1268.68(0.148)
• 549.34 *12*	0.016 *3*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
549.36 *7*	0.030 *5*	^{249}Cm(64.15 m)	634.31(1.5), 560.45(0.84), 368.76(0.35)
• 549.36 *7*	3.2×10^{-5}	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
549.4	†8.0	^{107}Mo(3.5 s)	400.3(†100), 65.7(†>92), 384.4(†57.6)
549.4 *2*	0.31 *5*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
• 549.40 *10*	0.050 *5*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
549.5 *2*	0.54 *7*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
549.5 *8*	0.07 *3*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
549.6 *4*	0.35 *5*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
549.6 *2*	0.37 *11*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
• 549.6 *1*	0.0060 *5*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
549.6 *3*	0.18 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
549.643 *14*	0.958 *21*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
549.69 *22*	0.29 *3*	^{70}Se(41.1 m)	49.51(35.8), 426.15(29), 376.65(9.43)
549.73 *22*	†5.8 *13*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
549.73 *5*	0.11 *2*	^{220}Rn(55.6 s)	
549.73 *5*	†100 *9*	^{216}Bi(3.6 s)	419.21(†44)
549.8 *3*	0.108 *13*	^{146}La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
549.80 *20*	†4.3 *7*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
549.83 *7*	1.30 *9*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
549.832 *12*	0.437 *12*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
549.84 *40*	0.042 *11*	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
• 549.85 *3*	0.152 *3*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
549.9 *5*	†9 *3*	^{106}Nb(1.02 s)	171.548(†100), 350.70(†39), 714.00(†30)
• 549.92 *5*	0.037 *3*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
550.0 *5*	0.26 *8*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
550 *10*	†28	^{189}W(11.5 m)	258(†100), 417(†96), 855(†20)
• 550.01 *15*	0.00019 *3*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
550.04 *3*	0.681 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
550.04 *7*	0.19 *4*	^{183}Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
550.1 *1*	0.7 *4*	^{73}Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
550.1 *4*	0.00092 *10*	^{107}Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
550.10 *10*	1.86 *13*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
550.1 *2*	†3.9×10^2 *12*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
550.154 *16*	1.54 *4*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
550.17 *11*	0.038 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
550.2 *2*	0.39 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
550.2 *5*	2.1	^{146}La(10.0 s)	258.47(93), 409.86(81), 514.75(31)
• 550.2 *3*	0.07 *4*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
550.2 *5*	†0.10 *2*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
550.2 *4*	0.10 *3*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
550.25 *15*	2.9 *6*	^{102}Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
• 550.251 *3*	0.0362 *18*	^{161}Tb(6.88 d)	25.65150(23.2), 48.91562(17.0), 74.56711(10.2)
• 550.284 *12*	94.5 *7*	^{148}Pm(41.29 d)	629.987(89), 725.673(32.7), 1013.808(20.20)
• 550.284 *12*	22.00 *16*	^{148}Pm(5.370 d)	1465.12(22), 914.85(11.46), 611.293(1.021)
• 550.284 *12*	98.5 *22*	^{148}Eu(54.5 d)	629.987(71.9), 611.293(20.5), 553.231(12.9)
• 550.3 *2*	0.26 *5*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 550.3 *5*	0.019 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
550.3 *1*	†0.5 *2*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
• 550.39 *15*	0.0022 *5*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
550.4 *1*	0.028 *7*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
550.4 *5*	0.044 *11*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
550.4 *2*	1.17 *12*	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
550.4 *3*	0.32 *16*	^{196}Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
550.45 *19*	0.073 *13*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
550.5 *2*	3.2 *3*	^{130}Sn(3.72 m)	192.5(70), 779.8(59), 70.0(35.5)
550.525 *17*	0.168 *14*	^{180}Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
550.53 *7*	†1.06 *21*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
• 550.53 *4*	4.2×10^{-7} *3*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
550.6 *5*		^{128}Pr(3.1 s)	873, 799, 592
550.6 *1*	0.72 *8*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
550.6 *3*	0.191 *10*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
550.6 *1*	1.08 *6*	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
550.63 *6*		^{193}Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
550.63 *6*	1.01 *5*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
550.69 *14*	0.27 *4*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
550.7 *3*		^{122}Ba(1.95 m)	388.7, 231.0, 65.8
550.7 *1*	25.9 *16*	^{130}La(8.7 m)	357.4(81.0), 908.0(17.0), 544.5(16.2)
550.7 *1*	5.0	^{248}Bk(23.7 h)	592.2(>0.015), 41.53

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
550.8	0.17	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
550.8 *1*	0.0152 *25*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
• 550.8 *2*	0.016 *3*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
550.8 *2*	†7.2 *7*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
550.86 *19*	0.13 *4*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
550.88 *10*	4.9 *3*	^{94}Y(18.7 m)	918.74(56), 1138.88(6.0), 1671.41(2.46)
550.9 *5*	0.319 *11*	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
550.9	0.099 *14*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
550.9	88 *5*	^{150}Ho(26 s)	653.3(100), 803.4(100), 393.9(93)
550.92 *17*	0.066 *10*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
551.0	0.097 *14*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
551.0 *1*	4.91 *18*	^{209}At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
551.01 *8*	1.28 *7*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
• 551.078 *19*	0.412 *14*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 551.08 *4*	0.00312 *20*	^{140}Ba(12.752 d)	537.261(24.39), 29.9640(14.1), 162.660(6.21)
551.10 *10*	0.39 *7*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
551.1	0.015 *7*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
551.20 *25*	0.86 *7*	^{90}Rb(258 s)	831.69(94), 1375.36(16.7), 3317.00(14.4)
551.20 *25*	0.0064 *8*	^{90}Rb(158 s)	831.69(28), 1060.70(6.69), 4365.90(5.6)
551.2 *3*	0.73 *12*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
551.2 *2*	0.071 *20*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
551.2 *3*	3.02 *20*	^{158}Sm(5.30 m)	189.4(15.2), 363.6(12.4), 324.5(10.6)
551.2 *2*	†3.5 *20*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
551.21 *10*	0.124 *11*	^{79}Ge(19.1 s)	109.58(21), 1505.85(9.2), 100.48(2.70)
551.21 *10*	1.06 *10*	^{79}Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
551.3 *3*	0.39 *3*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
551.4 *4*	0.00061 *15*	^{109}Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
551.4 *3*	0.135 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
551.4 *3*	0.060 *15*	^{143}Eu(2.63 m)	1107.3(8), 1536.8(3.29), 1912.7(2.13)
551.4 *2*	0.019 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
551.4 *2*	†35.7 *20*	^{202}Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)
551.46 *25*	0.44	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
551.47 *5*	4.07 *20*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
551.47 *13*	0.135 *16*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
• 551.5 *1*	0.0041 *16*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
551.5 *15*	0.0059 *24*	^{81}Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
551.5 *6*	0.22 *6*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
551.50 *5*	0.0035 *4*	^{129}Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
551.5 *3*	†4.61 *27*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
551.5 *6*	0.08 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
551.5 *1*	1.97 *10*	^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
551.532 *18*	5.08 *11*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
551.54 *3*		^{102}Nb(1.3 s)	948.85, 397.69, 847.37
551.54 *3*	30 *4*	^{102}Nb(4.3 s)	296.611(79), 1633.10(41), 447.13(19.6)
551.568 *6*	0.30 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
551.60 *5*	1.61 *23*	^{118}I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
551.60 *5*	2.6 *3*	^{118}I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
551.60 *5*	1.71 *17*	^{118}I(8.5 m)	605.71(99), 600.71(92), 614.42(65)
551.6 *3*	†5.0	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
551.7 *3*	3.4 *5*	^{98}Cd(9.2 s)	347.18(78), 1176.1(66.3), 107.28(43.7)
551.7 *1*	0.48 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
551.7 *2*	2.3 *5*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
551.76 *5*	1.71 *6*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
551.76 *5*	0.50 *6*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
551.79 *13*	0.088 *14*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
551.80 *15*	0.083 *10*	^{67}Ge(18.9 m)	167.01(84), 1472.48(4.9), 910.92(3.1)
551.8 *5*	0.11 *3*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
551.8 *3*	0.17 *3*	^{78}As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
551.8 *10*	†31	^{178}Os(5.0 m)	968.7(†100), 1331.1(†94), 594.6(†72)
551.9 *1*	†2.9 *5*	^{180}Au(8.1 s)	153.3(†100), 524.3(†29), 257.6(†26)
551.9 *3*	†8.0 *3*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
551.9 *1*	0.098 *16*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
551.98 *5*	0.00139 *23*	^{129}Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
551.99 *5*	0.42 *3*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
552.0 *2*	0.076 *14*	^{79}As(9.01 m)	95.73(0.85), 364.9(1.06), 432.1(0.850)
552.00 *20*	0.39 *10*	^{102}Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
552.0 *5*	0.27 *13*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
552.0 *3*	0.00032 *8*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
• 552.0 *1*	0.0044 *11*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
552.01 *3*	3.9 *3*	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
552.07 *12*	†9.8 *8*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
552.1 *5*	0.26 *8*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
552.1 *3*	0.024	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
552.15 *15*	0.125 *21*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
552.16 *19*	76 *3*	^{136}Pr(13.1 m)	539.75(52), 1092.3(18.5), 461.0(7.7)
552.2 *2*	0.28 *6*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
552.2 *1*	0.47 *3*	^{226}Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
• 552.2 *1*	5.4×10^{-7} *8*	^{230}Th(7.538×10^4 y)	87.67(0.376), 143.87(0.0486), 253.73(0.0111)
552.4 *4*	2.9 *10*	^{166}Ta(34.4 s)	158.5(53), 311.8(28.2), 810.1(9.8)
552.4 *3*	0.112 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
552.4 *5*	0.0033 *3*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 552.4 *5*	†0.019 *4*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
552.42 *9*	0.087 *7*	^{81}Se(18.45 m)	275.988(0.7), 290.03(0.55), 828.27(0.280)
• 552.43 *5*	0.00028 *9*	^{129}Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
552.5 *3*	1.68 *19*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
552.5 *3*	0.0103 *17*	^{123}Sn(40.06 m)	160.33(86), 381.4(0.042), 541.8(0.020)
552.5 *2*	1.55 *18*	^{209}At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
552.53 *5*	25.7 *13*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
552.60 *10*	0.351 *23*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
552.60 *14*	0.0159 *25*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
552.60 *14*	0.024 *8*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
552.63 *2*	0.0200 *11*	^{83}Br(2.40 h)	529.635(1.200), 520.39(0.0576), 648.9(0.0124)
• 552.63 *2*	16.0 *7*	^{83}Rb(86.2 d)	520.39(44.7), 529.635(29.3), 790.0(0.657)
552.69 *14*	0.84 *6*	^{136}I(46.9 s)	1313.02(100), 381.359(100), 197.316(78)
552.7 *10*	0.29 *6*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 552.760 *16*	0.0863 *24*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
552.8 *6*	1.6 *4*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
552.9 *3*	1.9 *2*	^{94}Rh(70.6 s)	1430.50(100), 756.23(51), 1072.50(30.7)
552.9 *6*	0.85 *19*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
552.9 *5*	0.21 *5*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
552.92 *2*	0.32 *8*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
• 552.92 *9*	0.00059 *3*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
552.948 *23*	0.686 *24*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
• 552.98 *14*	0.112 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
553.00 *10*	100 *10*	^{117}In(43.2 m)	158.562(87), 396.6(0.174), 156.02
553.00 *10*	0.082 *13*	^{117}Sb(2.80 h)	158.562(86), 861.35(0.31), 1004.51(0.21)
553.0 *3*	1.20 *17*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
553 *1*	0.6	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
553.0 *2*	6 *1*	^{151}Er(23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
553.0 *3*	†32 *5*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
553.0 *3*	†0.69 *4*	^{196}Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
553.02 *7*	0.035 *7*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
553.04 *6*	0.53 *6*	^{201}Au(26 m)	542.6(1.2), 517.0(0.83), 613.2(0.77)
553.1	>0.14	^{95}Rh(5.02 m)	941.6(72), 1352.0(20.8), 677.6(5.80)
553.1 *3*	0.068 *23*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
553.1 *8*	0.020 *7*	^{157}Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
553.1 *1*	3.04 *22*	^{208}Fr(59.1 s)	635.8(10), 778.5(6.8), 325.3(5.2)
553.12 *15*	0.09 *5*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
553.17 *5*	0.168 *24*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
553.20 *21*	3.36 *21*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
553.2 *1*	0.227 *25*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
• 553.20 *10*	0.033 *7*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
553.2 *3*	0.252 *25*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
553.2 *3*	4.6 *11*	^{194}Tl(32.8 m)	636.5(99), 428.0(99), 748.9(76)
553.2 *1*	1.19 *23*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
553.2 *2*	0.48 *4*	^{230}Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
• 553.231 *14*	0.40 *4*	^{148}Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 553.231 *14*	12.9 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 553.260 *15*	5.0 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
553.3 *2*	0.30 *6*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
553.3 *2*	0.206 *11*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
553.38 *5*	0.273 *4*	^{126}Cs(1.64 m)	388.633(41), 491.243(5.0), 925.24(4.56)
553.4 *5*	6.9 *7*	^{80}Sr(106.3 m)	589.0(39), 175.4(10.1), 378.8(4.2)
553.4 *1*	†19.1 *15*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 601.2(†10.9)
553.4	1.28 *10*	^{150}Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
553.43 *4*	0.205 *15*	^{132}La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
• 553.45 *5*	0.69 *5*	^{69}Ge(39.05 h)	1107.01(36), 574.17(13.3), 872.14(11.9)
553.50 *20*	1.00 *23*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
553.5 *2*	0.022 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
553.53 *20*	0.077 *12*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
553.6 *3*	0.08 *4*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
553.6 *2*	0.116 *22*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
553.690 *35*	0.0308 *11*	^{125}Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
553.7 *2*	0.23 *6*	^{108}Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
553.7 *2*	0.062 *25*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
553.7 *2*	†27 *4*	^{153}Ho(9.3 m)	108.7(†100), 365.9(†92), 161.5(†83)
553.7 *1*	0.044 *15*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
553.8 *1*	0.30 *6*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
553.8 *2*	†7.8 *8*	^{105}Nb(2.95 s)	94.8(†100), 246.9(†79), 309.9(†41.9)
• 553.8 *1*	>0.020	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
• 553.8	0.06	^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
553.9 *1*	†2.28 *16*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
553.90 *3*	0.66 *3*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
553.9 *3*	†0.26 *8*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
553.94 *7*	0.62 *4*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
553.98 *13*	0.89 *8*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
554 *1*	0.34 *11*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
554.0 *2*	†34 *3*	^{137}Te(2.49 s)	243.3(†100), 469.1(†21), 358.6(†18.8)
554.0 *2*		^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
554.0 *3*	0.14 *4*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
554.03 *28*	0.25 *3*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
554.1 *2*	2.94 *8*	^{129}Ba(2.23 h)	6.545(23.7), 214.30(13.4), 220.83(8.54)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
554.1 *3*	0.7 *4*	^{143}Gd(39 s)	258.81(75), 204.77(19.4), 463.7(9.9)
554.1 *3*	0.08	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
554.12 *28*	0.50 *3*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
554.13 *11*	0.24 *4*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
554.16 *15*	0.76 *14*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
554.2 *1*	0.030 *3*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
554.2 *3*	0.73 *15*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
554.2 *1*	3.4 *3*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
554.2 *2*	2.2 *3*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
554.2 *4*	0.061 *24*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
554.20 *24*	†5.4 *8*	^{184}Tl(11 s)	366.51(†100), 286.80(†39), 340.0(†25)
554.25 *8*	0.60	^{154}Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
• 554.3 *6*	0.012 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
554.3 *2*	†3.5 *5*	^{153}Yb(4.2 s)	547.4(†100), 674.1(†61), 369.6(†32)
• 554.348 *2*	70.8 *7*	^{82}Br(35.30 h)	776.517(83.5), 619.106(43.4), 698.374(28.49)
554.348 *2*	62.4 *8*	^{82}Rb(6.472 h)	776.517(84), 619.106(37.976), 1044.002(32.068)
554.37 *5*	0.133 *6*	^{89}Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
554.37 *5*	5.07 *12*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
554.4 *2*	1.52 *23*	^{231}Ac(7.5 m)	282.471(39.0), 307.063(30.4), 221.399(16.8)
554.4 *2*	0.0220 *17*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
554.42 *30*	0.078 *6*	^{107}Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
554.5	>0.0009	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
554.5 *1*	†6.9 *7*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
554.56 *1*	0.28 *7*	^{174}Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
554.58 *3*	0.27 *3*	^{182}Os(22.10 h)	510.056(52), 180.230(33.5), 263.285(6.71)
554.6 *6*	0.41 *21*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
• 554.6 *2*	0.016 *3*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
554.6 *3*	†23	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
554.6 *5*	0.47 *6*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
554.6 *2*	0.59 *7*	^{209}At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
554.60 *7*	20.9 *5*	^{240}Np(7.22 m)	597.40(11.7), 1496.9(1.33), 817.89(1.28)
• 554.60 *7*	0.01	^{240}Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
• 554.60 *7*	0.000079 *5*	^{244}Cm(18.10 y)	42.824(.0044100), 98.860(.0001470), 152.63(<4.9×10^{-7})
• 554.64 *6*	1.56 *6*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
• 554.66 *6*	0.017 *4*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
554.68 *6*	0.0146 *15*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
554.7	5.1 *6*	^{147}Tb(1.7 h)	1152.4(100), 694.4(43), 139.9(27.46)
554.7 *3*	2.7 *5*	^{204}Au(39.8 s)	436.551(91), 1511.10(25.2), 691.80(24.0)
554.73 *2*	1.03 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
554.77 *4*	3.54 *18*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
554.8 *5*	0.20 *8*	^{110}Ru(14.6 s)	112.2(25.00), 166.1(0.65), 116.1(0.45)
554.83 *3*	0.378 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
• 554.843 *3*	0.0198 *23*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
554.9 *5*	0.0035	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
554.92 *16*	0.065 *12*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
• 554.94 *10*	0.0054 *5*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
555.0 *4*	0.08 *3*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
555.0 *3*	1.20 *13*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
555.0 *2*	0.11 *6*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
555.01 *20*	>0.11	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
555.02 *9*	1.53 *17*	^{237}Pa(8.7 m)	853.6(34), 865.1(15.5), 529.26(14.9)
555.10 *10*	0.21 *11*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
555.12 *10*	0.047 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
555.15 *6*	3.71 *24*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
555.15 *10*	2.99 *21*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
555.2 *9*	0.48 *24*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
555.2 *9*	0.7 *4*	^{117}Ag(72.8 s)	135.4(23), 337.7(10.3), 157.1(7.9)
• 555.2 *2*	1.69 *20*	^{126}Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
555.2 *2*	0.015 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
555.2 *2*	†6.3 *6*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
555.22 *10*	0.0063 *5*	^{250}Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
555.23 *12*	0.034 *7*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
555.3 *1*	†8.4 *8*	^{104}Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
555.3 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 555.30 *10*	0.038 *4*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
555.36 *13*	0.028 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
555.4 *3*	0.66 *6*	^{96}Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
555.4 *3*	0.8	^{97}Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
555.40 *9*	†4.8 *6*	^{126}Cd(0.506 s)	260.09(†100), 428.11(†83.7), 688.23(†5.9)
555.4 *4*	†0.45 *23*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
555.4 *3*	†3.1 *6*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
555.41 *15*	0.104 *12*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
555.5 *3*	0.50 *6*	^{95}Y(10.3 m)	954.00(16), 2175.6(7.00), 3576.0(6.4)
555.5 *4*	0.65 *14*	^{136}Sm(47 s)	114.4(36), 747.7(5.4), 485.3(5.0)
555.5 *2*	0.199 *14*	^{140}Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
555.5 *2*	†6.2×10^3 *6*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
555.50 *15*	1.45 *8*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
555.5 *3*	0.25 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
555.5 *2*	†3.9 *4*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
555.57 *7*	1.94 *10*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
555.57 *5*		^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
555.6 *3*	1.48 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
• 555.6 *5*	0.016 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
555.6 *3*	3.2 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
555.70 *30*	1.6 *4*	^{115}Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
555.7 *1*	0.157 *25*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
555.72 *7*	0.047 *4*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
555.796 *23*	2.0	^{104}Rh(42.3 s)	1237.2(0.066), 767.72(0.011), 1238.0(0.010)
555.796 *23*	0.13	^{104}Rh(4.34 m)	767.72(0.0065), 1237.2(0.0042), 758.76(0.00094)
555.796 *23*	92.6 *9*	^{104}Ag(69.2 m)	767.72(65.7), 941.7(25.0), 926.2(12.5)
555.796 *23*	91	^{104}Ag(33.5 m)	1238.0(3.87), 2276.7(2.46), 1781.8(2.1)
555.88 *9*	0.59 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
555.89 *7*	0.191 *9*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
555.9 *2*	4.7 *4*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
555.9 *2*	>0.35	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
555.9 *4*	1.4 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
555.95 *9*	0.117 *13*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
556.0 *2*	4.7 *4*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
556.0 *2*	0.14 *3*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
556.0 *2*	†50 *6*	^{134}Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
556.0 *2*	†50 *6*	^{134}Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
• 556	0.0032 *8*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
• 556.0 *2*	0.198 *22*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
556.05 *13*	0.0031 *4*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
556.086 *7*	0.29 *4*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
556.1 *1*	0.04 *2*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
556.1 *1*	0.28 *4*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
556.10 *20*	1.6 *3*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
556.1 *5*	0.19 *4*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
556.17 *8*	0.020 *3*	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
556.2 *4*	†5.7 *12*	^{195}Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
556.3 *1*	6	^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
556.3 *2*	0.045 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
556.4 *5*	0.314 *17*	^{97}Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
556.4 *3*	0.13 *5*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
556.4 *3*	†1.00 *21*	^{144}Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
556.40 *23*	0.30 *5*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
556.489 *12*	0.0123 *12*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
556.5 *1*	†0.35 *6*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
556.5 *5*	0.00156 *18*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 556.5 *5*	†0.0138 *24*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 556.52 *4*	1.92 *19*	^{102}Rh(207 d)	
556.52 *4*	91 *7*	^{102}Ag(12.9 m)	719.40(58), 1744.99(17.3), 1581.54(13.7)
556.52 *4*	48 *4*	^{102}Ag(7.7 m)	1834.7(9.8), 2054.4(6.6), 2159.6(5.0)
556.53 *13*	2.3	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 556.56 *3*	0.0190 *10*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
556.57 *5*	0.026 *4*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
• 556.577 *7*	0.10 *4*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
556.6 *1*	1.56 *12*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
556.6 *4*	1.42 *19*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
556.6 *2*	86.6 *30*	^{142}Eu(1.22 m)	768.1(100), 1023.3(92.0), 1016.1(11.0)
556.6 *3*	0.067 *15*	^{143}Eu(2.63 m)	1107.3(8), 1536.8(3.29), 1912.7(2.13)
556.6 *4*	0.07 *4*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
556.64 *24*	0.11 *3*	^{182}Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
• 556.64 *32*	0.044 *15*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
• 556.65 *5*	0.118 *4*	^{129}Te(33.6 d)	695.88(2.988), 729.57(0.70), 817.04(0.091)
556.7 *1*	0.11 *4*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
556.7 *5*	0.020 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
556.73 *14*	0.6	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
556.8 *1*	3.36 *24*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
556.8 *2*	0.30 *5*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
556.83 *9*	0.44 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 556.87 *1*	0.0317 *17*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
556.9 *1*	†3.33 *30*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
556.9	0.79 *16*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
557 *1*	0.043	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
557.0 *3*	†20 *3*	^{84}Zr(25.9 m)	112.5(†100), 44.9(†48), 372.9(†41)
557.0 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
557.0 *2*	6.4 *6*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
557.0 *2*	>1.3	^{190}Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
557.0	0.052 *23*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 557.039 *20*	0.8672 *9*	^{103}Ru(39.26 d)	497.080(90.9), 610.33(5.75), 443.799(3.27)
557.079 *3*	0.65 *4*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 557.079 *3*	0.215 *10*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
557.1 *9*	†5	^{155}Er(5.3 m)	110.12(†100), 241.5(†65), 234.0(†40.0)
557.1 *2*	0.070 *17*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
557.1 *4*	0.028 *3*	^{233}Np(36.2 m)	312.17(0.7), 298.89(0.44), 546.9(0.280)
557.154 *66*	5.0 *4*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
557.19 *7*	0.22 *3*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
557.2 *1*	0.104 *9*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
557.2 *3*	0.25 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
557.24 *5*	1.77 *8*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
557.24 *6*	†8.6 *20*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 557.24 *6*	0.214 *13*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
• 557.26 *9*	0.059 *5*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
557.30 *20*	0.161 *16*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
557.3 *2*	16.5 *18*	^{128}Sn(59.07 m)	482.3(59), 75.1(27.7), 680.5(15.9)
557.3 *10*	†7.1×10^{2} *16*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 557.3 *5*	3.8×10^{-8} *19*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 557.36 *6*	1.30 *12*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
• 557.38 *4*	0.185 *21*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
557.4 *4*	0.059 *5*	^{67}Ge(18.9 m)	167.01(84), 1472.48(4.9), 910.92(3.1)
557.4 *4*	0.022 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
557.46 *11*	0.092 *14*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 557.497 *25*	0.519 *19*	^{173}Lu(1.37 y)	272.105(21.2), 78.63(11.87), 100.724(5.24)
557.5 *1*	0.121 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
557.5 *1*	22.3 *18*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
557.5	0.58 *5*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
557.5 *1*	0.36 *4*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
557.5 *1*	0.00091 *20*	^{188}Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
557.514 *18*	0.291 *6*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
• 557.581 *7*	0.2699 *25*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
557.581 *7*	0.31 *6*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
557.581 *7*	5.4 *4*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
557.59 *4*	0.22 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
557.6 *2*	>0.35	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
557.6 *5*	†0.6	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
557.7 *3*	11.3 *23*	^{133}Ce(97 m)	97.261(<0.22), 76.9(15.8), 376.7(0.9)
557.7 *1*	0.246 *10*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
557.7 *4*	†1.00 *19*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
557.7 *7*	0.43 *4*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
557.76 *9*	2.24 *10*	^{45}Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
557.76 *7*	9.18 *11*	^{146}Cs(0.343 s)	181.02(57.0), 332.38(6.44), 738.97(3.02)
• 557.8 *9*	3.5×10^{-5} *12*	^{75}Se(119.779 d)	264.6584(58.50), 136.0008(58.3), 279.5441(24.79)
557.8 *3*	6.2 *12*	^{114}Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
557.8 *2*	2.1 *4*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
557.8 *2*	†1.7 *3*	^{194}Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
557.80 *10*	3.5 *3*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
557.82 *19*	†7.5 *9*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
557.85 *10*	0.53 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
557.85 *12*	†0.41 *12*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
557.9 *5*	0.0595 *22*	^{73}Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
557.9 *4*	0.34 *17*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
557.9		^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
557.96 *40*	0.023 *8*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
557.972 *14*	28.2 *18*	^{190}Re(3.1 m)	186.718(48.4), 223.811(26.0), 569.310(25.1)
557.972 *14*	14.3 *10*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 569.310(13.7)
• 557.972 *14*	30.1 *9*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
558.0 *1*	0.165 *17*	^{94}Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
558 *1*	0.028 *19*	^{97}Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
558.0	4.6	^{144}Tb(4.25 s)	743.0(12), 1001.6(7), 959.36(4.7)
558.0	0.010	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
558.0 *4*	†0.50 *10*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
558.0	>0.039	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
558.0 *2*	0.093 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
558.0 *2*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
558.02 *3*	16.1 *4*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
558.09 *7*	0.58 *19*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
558.1 *2*	0.0024 *3*	^{109}Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
• 558.1 *2*	0.03 *1*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
558.1 *3*	0.010 *3*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
• 558.1 *2*	0.0040 *8*	^{152}Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
558.1 *2*	†2.5 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
558.10 *15*	2.1 *4*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
558.14 *10*	0.038 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
558.2 *3*	0.265 *16*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
558.2 *2*	†100 *3*	^{94}Pd(9.0 s)	723.9(†12.1), 54.6(†11), 797.8(†7.1)
558.2 *6*	0.20 *4*	^{99}Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
558.2 *2*	†10.6 *7*	^{168}Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
558.2 *11*	†0.08 *8*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
558.27 *9*	0.31 *5*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
558.3 *1*	0.254 *14*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
558.3 *3*	†1.7 *3*	^{111}Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
558.3 *4*	0.33 *20*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
558.30 *15*	0.60 *14*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
558.30 *10*	0.41 *9*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
• 558.372 *10*	0.0152 *9*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 558.372 *10*	0.052 *4*	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
558.38 *9*	0.43 *13*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
558.38 *5*	2.55 *14*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
558.4 *2*	0.084 *6*	^{112}Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
558.4 *2*	0.34 *5*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
558.454 *12*	20.40 *6*	^{114}Ag(4.6 s)	576.08(1.77), 1301.234(1.31), 1995.06(1.22)
558.454 *12*	†>3.4×10^4	^{114}In(71.9 s)	576.08(†2000), 747.15(†>93)
• 558.454 *12*	†185 *13*	^{114}In(49.51 d)	725.298(†185)
558.50 *6*	0.097 *6*	^{89}Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
558.5 *5*	0.12 *4*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
558.5 *4*	†0.45 *23*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
558.5 *4*	0.21 *11*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
558.5 *2*	0.00059 *10*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
558.52 *21*	0.013 *3*	^{112}Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
558.52 *21*		^{112}In(14.97 m)	617.27(4.6), 606.49(1.111), 1253.43(0.218)
558.7 *3*	23.1 *21*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)
558.7 *5*	5.4 *8*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 558.741 *29*	0.316 *14*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
558.8 *4*	0.037 *19*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
558.8 *2*	0.49 *11*	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
558.8 *3*	†26.9 *25*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
558.9 *1*	0.060 *12*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 558.90 *15*	0.0157 *18*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
558.9 *2*	†17.2 *17*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
559 *2*		^{72}Kr(17.2 s)	415.1(34.7), 310.0(28.5), 162.2(16.3)
559.0		^{99}Cd(16 s)	342.6(†100), 671.8(†31), 1583.3(†28)
559.0 *3*	†28 *3*	^{137}Sm(45 s)	380.5(†100), 163.7(†85), 408.3(†40)
559.0 *2*	3	^{151}Er(23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
559.0 *2*	0.11 *3*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
559.0 *9*	†0.4 *2*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
559.0 *6*	0.16	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
559.0 *1*	8.19 *25*	^{206}Fr(15.9 s)	575.3(12), 628.6(3.6), 161.4(1.2)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
559.01 *8*	†0.56 *11*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
• 559.07 *10*	6.45 *23*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
559.1 *3*	6.3 *5*	^{104}Cd(57.7 m)	83.7(47), 709.6(19.5), 66.8(2.40)
• 559.101 *5*	45	^{76}As(26.32 h)	657.041(6.2), 1216.104(3.42), 1212.94(1.44)
559.101 *5*	74	^{76}Br(16.2 h)	657.041(15.9), 1853.67(14.7), 1216.104(8.8)
559.101 *5*	<0.6	^{76}Br(1.31 s)	771.756(<0.6)
559.14 *4*	0.14 *3*	^{69}As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
559.2 *3*	0.023 *8*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
559.2 *3*	0.07 *4*	^{205}Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
559.2 *4*	0.21 *5*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
559.2 *2*	0.072 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
559.24 *10*	0.109 *10*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
559.24 *15*	†18.0 *15*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
• 559.28 *6*	0.49 *5*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
• 559.3 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
559.3 *5*	0.14 *7*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
559.3 *2*	0.097 *15*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
559.34 *24*	2.6 *3*	^{72}Br(78.6 s)	862.03(70), 1316.70(17.3), 454.70(13.1)
559.34 *15*	1.44 *15*	^{121}Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
• 559.35 *10*	0.222 *9*	^{83}Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
• 559.374 *4*	0.136 *8*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
559.4 *2*	†3.3 *5*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
559.4 *5*	1.00 *25*	^{151}Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
559.4 *4*	0.0466 *19*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
559.42 *20*	0.89 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
559.44 *8*	0.032 *5*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
559.5 *2*	1.9 *5*	^{122}Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
559.5 *1*	0.113 *13*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
559.5 *2*	†1.63 *13*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
• 559.510 *4*	0.008 *3*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
559.57 *5*	†20.2 *5*	^{144}Cs(1.01 s)	199.326(†100.0), 639.00(†21.2), 758.96(†20.6)
559.59 *5*	2.0 *3*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
559.6 *3*	0.10 *4*	^{88}Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
559.6 *1*	0.7	^{149}Dy(0.490 s)	361.4(0.8), 290.7(0.8), 786.6(0.8)
559.63 *4*	>0.06	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
559.63 *14*	0.0213 *7*	^{159}Gd(18.479 h)	363.55(11.4), 58.00(2.15), 348.16(0.234)
559.7 *3*	0.21 *5*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
559.7 *4*	0.089 *20*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
559.7 *5*	†0.8	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
559.80 *15*	1.47 *15*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
559.86 *2*	0.891 *20*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
559.9 *2*	0.121 *13*	^{143}La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
559.92 *8*	0.201 *20*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
560.0 *5*	0.05 *3*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
560.0	0.027 *5*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
560.0		^{154}Tm(3.30 s)	542.0, 625, 601.3
560.0 *2*	0.028 *4*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 560	0.0028 *8*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
560.05 *6*	0.0061 *4*	^{129}Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
560.09 *7*	0.59 *24*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
560.1 *2*	0.081 *11*	^{65}Ga(15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
560.1 *3*	0.126 *13*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
560.1 *2*	†0.17 *7*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
560.1 *7*	22.0 *21*	^{199}Bi(27 m)	424.85(22), 841.7(11), 946.0(10.8)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
560.13 *5*	5.4 *5*	^{245}Pu(10.5 h)	327.428(25.4), 308.222(4.9), 376.676(3.2)
560.13		^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
560.2 *3*	6.9 *6*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
560.2 *4*	0.57 *6*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
560.21 *2*	0.95 *4*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
• 560.24 *13*	0.0039 *7*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
• 560.27 *4*	7	^{195}Hg(41.6 h)	261.75(30.9), 387.87(2.15), 200.38(0.79)
560.28 *18*	0.121 *17*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
560.3	0.30	^{83}As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
560.3 *3*	0.070 *9*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
560.3 *3*	0.09 *3*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
560.3 *2*	14.0 *19*	^{122}Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
560.3 *2*	0.017 *5*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
• 560.3 *1*	>0.31	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
560.3 *3*	0.12	^{154}Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
560.3		^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
560.32 *11*	1.87 *10*	^{110}In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
• 560.34 *4*	0.033 *3*	^{97}Ru(2.9 d)	215.718(86), 324.48(10.79), 569.31(0.873)
• 560.369 *15*	0.027 *6*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 560.369 *15*	0.098 *7*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
560.42 *2*	1.86 *7*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
560.44 *2*	†137	^{120}I(81.0 m)	1523.0(†21.1), 640.85(†17.1), 601.11(†10.8)
560.44 *2*	100	^{120}I(53 m)	601.11(87), 614.62(67), 976(35)
560.45 *3*	0.84 *6*	^{249}Cm(64.15 m)	634.31(1.5), 368.76(0.35), 621.87(0.182)
• 560.45 *3*	4.0×10^{-5}	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
560.46 *13*	0.60 *6*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
560.48 *20*	2.12 *16*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
560.5 *1*	13.2 *23*	^{82}As(13.6 s)	654.6(72), 343.5(58), 1895.4(39)
560.5 *3*	49 *4*	^{112}Rh(6.8 s)	348.70(87), 1098.6(39), 359.7(30)
560.5 *1*	24 *3*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
560.5	0.041 *23*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
560.51 *5*	0.12 *3*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
• 560.55 *15*	0.0166 *22*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
560.6 *2*	†27 *2*	^{191}Pb(2.18 m)	387.1(†100), 712.2(†46), 613.5(†40)
560.69 *10*	1.35 *3*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
560.7 *3*	†3.1 *16*	^{105}Nb(2.95 s)	94.8(†100), 246.9(†79), 309.9(†41.9)
560.7	0.008	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
560.7 *2*	3.7 *4*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
• 560.71 *5*	0.58 *4*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
560.71 *5*	†294 *81*	^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)
560.74 *5*	3.82 *17*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
560.77 *3*	0.0686 *23*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
560.8 *3*	†0.91 *15*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
560.8	†3.1	^{144}Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
560.81 *38*	0.12 *3*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
560.87 *15*	0.30 *9*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
560.9 *3*	0.09 *3*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
561.0 *3*	1.08 *9*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
561.00 *10*	0.82 *6*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
561.03 *6*	2.40 *14*	^{92}Y(3.54 h)	934.46(13.9), 1405.28(4.8), 448.34(2.34)
• 561.03 *6*	>0.0045	^{92}Nb(10.15 d)	934.46(99), 912.73(1.78), 1847.27(0.85)
• 561.03 *6*	100	^{92}Nb(3.47×10^{7} y)	934.46(100)
561.1 *5*	0.28 *12*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
561.1 *2*	†1.59 *11*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
561.1 *2*	0.36 *7*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
561.1 *2*	0.08 *3*	^{241}Np(13.9 m)	174.94(3.1), 132.99(0.86), 518.8(0.40)
• 561.11 *7*	0.114 *2*	^{238}Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
561.11 *7*	10.9 *6*	^{238}Am(98 m)	962.77(28), 918.69(23.0), 605.13(7.6)
• 561.11 *7*	0.00015 *4*	^{242}Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
561.2	3.2	^{43}Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
561.2 *2*	0.120 *12*	^{93}Ru(59.7 s)	680.68(6), 1434.73(0.73), 1015.90(0.42)
561.2 *2*	0.29 *5*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
• 561.2 *5*	0.00104 *21*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
561.2 *7*	0.11 *5*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
561.21	0.07	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
• 561.29 *3*	0.053 *5*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
561.3 *2*	0.065 *12*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
561.4 *5*	0.06 *3*	^{61}Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
561.4 *5*	0.083 *21*	^{84}Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
561.4 *3*	0.29 *5*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
561.4 *1*	0.068 *17*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
561.46 *32*	†9.0 *15*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
561.52 *30*	0.079 *11*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
561.56 *22*	0.17 *3*	^{70}Se(41.1 m)	49.51(35.8), 426.15(29), 376.65(9.43)
561.6 *3*	0.29 *5*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
561.6 *4*	0.15 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
561.6 *3*	0.013 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
561.60 *25*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
561.604 *11*	0.120 *3*	^{90}Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
561.63 *6*	4.7 *3*	^{141}Cs(24.94 s)	48.53(7.90), 1194.02(3.95), 588.79(3.79)
• 561.67 *10*	0.013 *3*	^{95}Nb(34.975 d)	765.794(100), 204.117(0.028)
561.67 *10*	0.014 *6*	^{95}Tc(20.0 h)	765.794(93.82), 1073.71(3.74), 947.67(1.951)
561.7	0.189 *23*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
561.785 *16*	1.100 *25*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
561.8 *4*	0.18 *4*	^{73}Ga(4.86 h)	297.32(79.8), 325.70(11.17), 739.42(4.23)
561.8 *2*	†2.7 *6*	^{132}Pr(1.6 m)	325.5(†100), 496.9(†25), 822.4(†17.3)
561.8 *6*	0.0010 *5*	^{141}La(3.92 h)	1354.52(1.64), 1693.3(0.074), 2267.0(0.0413)
561.8 *4*	0.0029 *10*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
562.0 *5*	0.179 *19*	^{91}Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
562.0 *3*	†2.7 *6*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
562.08 *21*	0.046 *6*	^{89}Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
562.08 *18*	0.029 *7*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
562.1 *1*	1.05 *11*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
562.1 *2*	0.370 *19*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
• 562.1 *3*	0.019 *3*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
562.10 *20*	0.071 *22*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
562.15 *4*	11.41 *13*	^{78}Rb(17.66 m)	454.97(63), 692.86(12.56), 3438.16(10.8)
562.15 *4*	0.28 *8*	^{78}Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
562.16 *7*		^{83}Br(2.40 h)	529.635(1.200), 520.39(0.0576), 552.63(0.0200)
• 562.16 *7*	0.0085 *9*	^{83}Rb(86.2 d)	520.39(44.7), 529.635(29.3), 552.63(16.0)
562.2 *4*	0.15 *5*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
562.2 *2*	†2.9 *4*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
562.2 *4*	†2.5 *7*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
562.2 *6*	5.11 *17*	^{154}Pr(2.3 s)	162.4(15), 932.1(11.7), 70.8(11.22)
562.248 *25*	0.639 *23*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
562.3	0.09	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
562.37 *5*	0.74 *4*	^{81}Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
562.4	0.49	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
562.4 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
562.4 *2*	†79	^{198}Bi(693 s)	1063.5(†100), 197.6(†80), 317.9(†37.5)
562.4 *2*	†6.4 *12*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
• 562.413 *12*	0.000118 *4*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
562.5 *3*	0.24 *3*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
562.5 *1*	0.074 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
562.5 *4*	†16 *3*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
• 562.5 *1*	35 *2*	^{194}Ir(171 d)	482.833(97), 328.455(93), 600.5(62)
562.5 *7*	0.35 *5*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
562.500 *4*	0.87 *4*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
562.500 *4*	0.69 *19*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
562.5 *3*	1.0 *3*	^{251}Cm(16.8 m)	542.7(10.9), 530.0(1.62), 389.7(1.28)
562.6 *3*	†1.1 *3*	^{83}Ge(1.85 s)	306.51(†100.0), 1193.77(†20.5), 1525.50(†13.6)
562.6 *3*	0.33 *10*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
• 562.6 *3*	0.084 *6*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
• 562.64 *8*	35 *2*	^{194}Ir(171 d)	482.833(97), 328.455(93), 600.5(62)
562.73 *5*	0.237 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
562.79 *12*	0.0011 *4*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
562.79 *4*	0.146 *13*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
562.8	0.123 *22*	^{43}Ti(509 ms)	2288.2(4.40), 845.2(2.77), 2458.5(0.91)
562.8 *1*	0.11 *4*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
• 562.8 *5*		^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
562.8 *4*	0.070	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
562.8 *3*	0.036 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
562.81 *10*	0.032 *7*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
• 562.82 *20*	>0.00047	^{129}Te(33.6 d)	695.88(2.988), 729.57(0.70), 556.65(0.118)
• 562.87 *13*	0.0036 *5*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
562.90 *9*	7.0 *5*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 210.21(6.8)
562.9 *4*	0.8 *4*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
562.93 *3*	66	^{76}Ga(32.6 s)	545.51(26.0), 1108.41(15.8), 431.0(9.2)
562.93 *8*	0.23 *3*	^{152}Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
• 562.93 *8*	0.025 *4*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
562.93 *8*	0.226 *3*	^{152}Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
• 563.0 *2*	0.0155 *19*	^{125}Sn(9.64 d)	1067.10(10), 1089.15(4.59), 822.48(4.28)
• 563.00 *15*	0.0430 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
563.0 *4*	0.14 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
563.0 *3*	0.076 *12*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 563.05 *30*	†7×10^{03}	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
563.1 *3*	0.76 *17*	^{160}Yb(4.8 m)	173.74(42.0), 215.78(20.2), 140.35(9.3)
• 563.178 *5*	1.20 *6*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
563.178 *5*	3.6 *6*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
• 563.197 *7*	3.68 *19*	^{232}Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
• 563.197 *7*	0.00010	^{236}Pu(2.858 y)	47.574(0.066), 108.96(0.012), 166.0(0.00066)
563.2		^{99}Cd(16 s)	342.6(†100), 671.8(†31), 1583.3(†28)
563.2 *7*	0.176 *22*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
563.21 *3*	0.0601 *19*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
• 563.227 *15*	8.38 *5*	^{134}Cs(2.062 y)	604.699(97.56), 795.845(85.44), 569.315(15.43)
563.227 *15*	0.359 *9*	^{134}La(6.45 m)	604.699(5.05), 1554.934(0.414), 1732.129(0.234)
• 563.243 *15*	0.400 *23*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
563.3 *4*	0.8 *4*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
563.3 *2*	2.3 *8*	^{145}Ho(2.4 s)	339.8(15), 312.9(14.3), 334.1(13.5)
563.3 *5*	†1.7 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
563.4 *4*	0.16 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 563.4		^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
563.41 *20*	†0.56 *5*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
• 563.42 *4*	0.50 *3*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
• 563.48 *6*	0.0095 *13*	^{95}Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
• 563.48 *10*	0.0102 *11*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
563.49 *22*	†4.5	^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
563.5 *2*	3.1 *4*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
563.5 *3*	†25.0 *10*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
563.52 *5*	10.5 *5*	^{195}Tl(1.16 h)	884.47(10.0), 1363.88(8.4), 242.15(4.3)
563.53 *16*	0.42 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
563.68 *19*	4.23 *21*	^{54}V(49.8 s)	834.848(97.1), 989.01(80.1), 2259.35(45.6)
563.7 *2*	8.3 *4*	^{142}Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
563.7 *15*	†1.3 *3*	^{215}Bi(7.6 m)	293.54(†100), 271.23(†5.5), 517.63(†1.9)
563.7 *15*	>0.0032	^{219}Rn(3.96 s)	271.23(10.8), 401.81(6.37), 130.59(0.119)
563.8 *1*	11.7 *15*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
563.8	0.009 *4*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
563.80 *5*	0.13 *3*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
563.8 *5*	2.5 *6*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
563.8 *3*	0.9	^{207}Hg(2.9 m)	351.059(77), 997.1(69), 1637.1(30)
563.9 *2*	0.0012	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
564.0 *3*	0.31 *5*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
564.021 *8*	0.07 *3*	^{152}Pm(4.1 m)	121.7824(15.7), 841.586(2.17), 961.06(1.92)
• 564.021 *8*	0.468 *13*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
564.03 *4*	0.39	^{53}V(1.61 m)	1006.14(90), 1289.59(10), 283.14(0.8)
564.081 *8*	0.053 *6*	^{200}Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
• 564.081 *8*	0.035 *17*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
564.1 *4*	0.17 *3*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
• 564.119 *17*	69	^{122}Sb(2.70 d)	692.794(3.78), 1256.901(0.80), 793.278(0.016)
564.119 *17*	18	^{122}I(3.63 m)	692.794(1.325), 793.278(1.297), 683.647(0.778)
• 564.183 *17*	2.31 *14*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
564.19 *24*	0.52 *3*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
564.2	†2	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
564.3 *2*	†1.17 *11*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
564.34 *9*	0.305 *21*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
• 564.39 *20*	0.007 *6*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
564.397 *16*	14.7 *8*	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 1432.91(13.4)
564.4	11	^{140}I(0.86 s)	376.657(91), 457.630(59), 936.7(16)
564.4 *1*	0.55 *7*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
564.4 *1*	0.22 *3*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
564.4 *6*	†0.14 *5*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
564.4 *6*	0.064 *21*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
564.4 *5*	0.98 *9*	^{212}Fr(20.0 m)	1273.8(46), 227.72(43), 1185.6(14.1)
564.42 *8*	0.20 *10*	^{140}Pm(5.95 m)	1028.19(100), 773.74(100), 419.57(92)
• 564.45 *20*	0.096 *18*	^{83}Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
564.5 *5*	0.22 *7*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
564.5 *5*	0.27 *10*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
564.5 *3*	2.6 *9*	^{132}Pm(6.3 s)	212.5(88), 397.2(23), 610.4(12.3)
564.56 *7*	0.211 *15*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
564.69 *15*	0.041 *3*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
564.7 *10*	0.21 *4*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
564.79 *8*	13.27 *24*	^{47}K(17.5 s)	2013.45(93), 586.01(79.7), 2578.26(5.60)
564.86 *21*	0.17 *3*	^{70}Se(41.1 m)	49.51(35.8), 426.15(29), 376.65(9.43)
• 564.86 *15*	0.0033 *7*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
564.96 *5*	0.012 *4*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
565.0 *2*	1.81 *20*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
565.0 *2*	†7	^{96}Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
565	0.21 *8*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
565.0 *5*	0.117 *25*	^{115}Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
• 565.00 *4*	0.353 *20*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
• 565.0 *4*	0.028 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
565.0 *5*	†0.6	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
565.0 *2*	†17.0 *2*	^{200}At(43 s)	665.9(†100), 611.1(†85.0), 484.5(†49.8)
565	†14	^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
565.0 *2*	0.209 *17*	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
565.03 *14*	1.32 *16*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
565.04 *14*	†4.7 *9*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
565.1 *2*	0.30 *5*	^{117}Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
565.13 *4*	0.49 *5*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
565.16 *23*	0.64 *3*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
565.19 *8*	0.207 *16*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
565.2 *2*	†1.7 *5*	^{136}Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
565.2 *1*	1.03 *6*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
565.23 *2*	0.540 *13*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
565.3 *3*	0.23 *5*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
565.3 *5*	0.07 *3*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
565.3 *4*	0.20 *7*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
565.31 *5*	0.10 *3*	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
565.33 *12*	2.59 *24*	^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
565.36 *10*	0.40 *12*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
565.4 *3*	0.09 *3*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
565.4 *5*	0.09 *3*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
565.4 *2*	†36 *3*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
565.4 *1*	0.179 *16*	^{226}Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
565.42 *4*	0.050 *17*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
565.42 *11*	†48 *3*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 434.52(†47)
565.44 *5*	>0.13	^{108}Sn(10.30 m)	396.44(64.3), 272.75(45.5), 669.08(22.6)
565.48 *15*	0.22 *5*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
565.5 *3*	0.09	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
565.5 *2*	†20 *6*	^{153}Ho(9.3 m)	108.7(†100), 365.9(†92), 161.5(†83)
565.5 *2*	0.40 *13*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
565.52 *4*	0.94 *6*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
565.55 *12*	3.2 *3*	^{206}At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
• 565.56 *5*	0.0414 *24*	^{172}Tm(63.6 h)	78.7435(6.5), 1093.657(6.0), 1387.093(5.6)
565.57 *10*	1.00 *18*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
565.6 *3*	2.59 *4*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
565.6 *2*	0.33	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
565.7 *3*	0.20 *6*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
565.70 *3*	1.31 *10*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
565.7 *1*	1.12 *7*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
565.718 *20*	0.132 *4*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
565.73 *10*	0.11	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
• 565.732 *7*	0.427 *14*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
565.8 *7*	0.12 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
• 565.80 *15*	0.0125 *7*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
565.8 *1*	0.349 *22*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
565.8 *3*	0.154 *20*	^{238}Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
565.82 *5*	0.195 *19*	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
565.85 *10*	0.0340 *18*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
565.88 *4*	4.50 *15*	^{55}V(6.54 s)	517.71(73), 880.70(18.1), 921.10(4.6)
565.9 *1*	3.44 *8*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
565.9 *3*		^{146}Dy(29 s)	2156.8, 1915.7, 1876.7
565.9 *1*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
565.992 *13*	18.3 *9*	^{134}Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
566.0 *5*	†16.2 *16*	^{88}Se(1.52 s)	159.2(†100), 259.2(†82), 1903.7(†64)
566.0 *3*	0.34 *5*	^{127}In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
566	†6.9	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
566		^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
566.0 *2*	4.61 *23*	^{190}Pb(1.2 m)	942.20(34), 151.19(8.92), 598.3(8.0)
566.0 *2*	†2.5	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
566.04 *6*	0.220 *15*	^{81}Se(18.45 m)	275.988(0.7), 290.03(0.55), 828.27(0.280)
566.04 *6*		^{81}Se(57.28 m)	275.988(0.049), 260.21(0.048), 767.1(0.00061)
566.1 *5*	0.29 *15*	^{140}Pm(5.95 m)	1028.19(100), 773.74(100), 419.57(92)
566.1	0.11	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
566.12 *5*	0.0425 *25*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
566.14 *10*	0.0020	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
566.16 *23*	0.046 *13*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 566.2 *3*	0.034 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
566.2 *5*	†4.6	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
566.2 *4*	†0.31 *13*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
566.2 *7*	0.43 *9*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
566.21 *9*	†7.59 *23*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
566.24 *9*	0.56 *6*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
566.28 *4*	0.341 *17*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
566.3 *2*	0.29 *9*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
566.34 *6*	25.3 *13*	^{240}Np(61.9 m)	973.9(23.8), 600.57(18.4), 895.8(13.6)
566.37 *8*	4.6 *5*	^{80}Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
566.4 *5*	†11.0 *20*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
566.4 *4*	†0.31 *10*	^{196}Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
• 566.421 *8*	0.1294 *21*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
566.437 *8*	0.45 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
• 566.49 *5*	0.077 *7*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
566.5 *2*	0.028 *4*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
566.5	0.348 *24*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
566.5	0.07	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
566.5 *2*	0.053 *14*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
• 566.59 *8*	0.212 *21*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
566.6 *2*	0.0124 *22*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
566.6 *3*	†1.53 *20*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
566.62 *5*	0.73 *11*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
566.7 *1*	0.73 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
566.7 *2*	22 *2*	^{150}Tb(5.8 m)	638.05(100), 650.4(70), 438.37(42)
566.7 *4*	†4.7 *9*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
566.85 *16*	0.47 *8*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
566.87 *2*	0.606 *25*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
566.9 *5*	>0.13	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
566.90 *10*	0.126 *10*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
566.91 *12*	†2.5 *2*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
566.92 *22*	0.71 *9*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
567.0 *1*	3.8 *3*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
567.00 *15*	0.32 *7*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
567 *1*	0.42 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
567.0 *7*	0.13 *7*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
567.0 *5*	†0.7 *3*	^{198}Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)
• 567.0	5.1×10^{-5}	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
567.05 *11*	0.166 *12*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
567.06 *16*	18.2 *9*	^{78}Ga(5.09 s)	619.40(77), 1186.42(20.1), 1025.11(12.4)
567.1 *3*	0.027 *7*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
567.1 *4*	0.003 *3*	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
567.1 *3*	0.13 *3*	^{236}Th(37.5 m)	110.8(4.2), 646.6(0.72), 196.0(0.69)
• 567.14 *3*	0.234 *9*	^{132}Cs(6.479 d)	464.55(1.73), 1031.70(0.125)
567.14 *3*	15.7 *12*	^{132}La(4.8 h)	464.55(76), 1909.91(9.0), 663.07(9.0)
567.14 *3*	4.5 *9*	^{132}La(24.3 m)	464.55(22), 663.07(11.6), 285.6(7)
567.2 *3*	0.44 *22*	^{181}Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
567.2 *5*	†0.19 *14*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
567.2 *3*	0.35 *4*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
567.2 *5*	†3.9 *17*	^{193}Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
567.210 *18*	0.009 *4*	^{183}Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
567.24 *24*	1.00 *9*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
567.26 *4*	0.21 *1*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
567.3 *2*	1.16 *8*	^{148}Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
567.3 *3*	0.072 *10*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
567.31 *13*	0.19 *3*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
567.33 *4*	0.102 *6*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
567.4 *2*	†36 *3*	^{113}I(6.6 s)	462.5(†100), 622.4(†74), 351.5(†43)
567.4 *4*	0.041 *13*	^{116}In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
567.4 *4*	0.6 *2*	^{129}Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
567.43 *21*	3.3 *5*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
567.5 *3*	0.35 *4*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
• 567.5 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
567.56	0.017 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
567.57 *42*	0.42 *10*	^{174}W(31 m)	35.42(14.1), 428.83(12.7), 328.68(9.5)
567.58 *4*	0.145 *14*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
• 567.61 *6*	0.022 *7*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
567.66 *11*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
567.70 *20*	1.15 *8*	^{107}Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
567.7 *3*	0.8	^{113}Pd(93 s)	95.74(3.3), 643.7(3.0), 739.63(2.4)
567.7 *2*	†357 *71*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
567.71 *20*	0.101 *11*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
567.72 *5*	0.114 *9*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
567.72 *5*	0.042 *9*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
567.8 *1*	0.54 *3*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
567.83 *15*	0.31 *3*	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
• 567.87 *13*	0.00282 *9*	^{103}Ru(39.26 d)	497.080(90.9), 610.33(5.75), 443.799(3.27)
567.90 *15*	5.2 *3*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
• 568.067 *7*	0.857 *18*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
568.1 *5*	0.10 *4*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
568.1 *3*	0.81 *3*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
568.20 *4*	3.84 *13*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
568.2 *2*	0.28 *7*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
568.27 *12*	0.21 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
568.29 *10*	0.17 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
• 568.36 *7*	0.0186 *12*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 568.36 *7*	0.000024 *8*	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
568.39 *6*	2.8 *3*	^{115}Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
568.4 *2*	1.67 *7*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
568.4 *2*	0.00086 *9*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
568.4 *3*	16.1 *6*	^{171}Re(15.2 s)	102.0(9.7), 1066.0(8.1), 434.9(7.6)
568.4 *9*	0.06 *2*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
568.485 *10*	0.0083 *10*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
568.5 *3*	†2.4 *4*	^{75}Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
568.5 *6*	0.8 *3*	^{166}Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
568.5 *3*	†1.7 *5*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
568.5 *7*	0.55 *9*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
568.53 *6*	0.306 *16*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
568.7 *1*	0.199 *9*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
568.7 *1*	†0.6 *2*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
568.72 *10*	>1.5	^{157}Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
568.80 *12*	58.0 *3*	^{96}Nb(23.35 h)	778.224(96.45), 459.88(26.62), 849.929(20.45)
• 568.80 *12*	0.92 *6*	^{96}Tc(4.28 d)	778.224(100), 849.929(98), 812.581(82)
568.80 *12*	0.0026 *8*	^{96}Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
568.8 *15*	0.65 *13*	^{117}Te(62 m)	719.7(65), 1716.4(15.9), 2300.0(11.2)
• 568.80 *8*	0.053 *4*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
568.821 *6*	0.080 *6*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 568.821 *6*	0.006 *3*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
568.84 *5*	7.1 *3*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 243.37(7.0)
568.88 *17*	†6.5 *10*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
568.89 *5*	0.42 *3*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
568.89 *4*	†7.5 *15*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
568.9 *10*	0.17 *6*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
568.9 *3*	0.28 *5*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
568.9 *2*	3.6 *4*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
568.91 *4*	0.582 *16*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
568.94 *13*	0.069 *10*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
568.95 *10*	†4.7 *5*	^{131}Ce(5.0 m)	230.43(†100), 436.85(†7.3), 462.9(†6.9)
569.00 *19*	0.20 *3*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
569		^{116}Pd(12.4 s)	279.3, 178.3, 215.8
569.0 *3*	0.38 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
569 *1*	11.1 *6*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
569.0		^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
569.0 *3*	0.051 *3*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 569.0 *3*	†0.037 *7*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
569.07 *24*	0.20 *6*	^{95}Y(10.3 m)	954.00(16), 2175.6(7.00), 3576.0(6.4)
569.1 *3*	0.25 *5*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
569.1 *1*		^{125}La(76 s)	67.6(34), 43.6(3.5), 985.2
569.1 *1*	2.52 *7*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
569.1 *2*	†91 *12*	^{229}Ac(62.7 m)	164.522(†100), 261.92(†39), 146.345(†35)
569.11 *15*	1.80 *20*	^{124}In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
569.2 *1*	0.924 *23*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
569.20 *5*	0.604 *19*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
569.2 *3*	0.040 *11*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
569.2 *2*	0.29 *10*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
569.22 *12*	0.0787 *16*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 569.23	0.0101 *8*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
569.26 *3*	4.8 *3*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
569.3 *3*	5.8 *6*	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
569.3 *1*	†1.19 *9*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
569.3 *1*	3.4 *3*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
569.30 *20*	0.23 *5*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 569.31 *4*	0.873 *17*	^{97}Ru(2.9 d)	215.718(86), 324.48(10.79), 460.57(0.121)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
569.310 *14*	25.1 *13*	^{190}Re(3.1 m)	186.718(48.4), 557.972(28.2), 223.811(26.0)
569.310 *14*	13.7 *10*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 569.310 *14*	28.5 *9*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
• 569.315 *15*	15.43 *11*	^{134}Cs(2.062 y)	604.699(97.56), 795.845(85.44), 801.932(8.73)
569.4 *1*	2.8 *3*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
569.4 *5*	†1.5 *4*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
569.4 *3*	0.40 *5*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
569.4 *5*	1.2	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 569.4 *2*	3.6×10^{-6} *4*	^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
569.45 *8*	96	^{122}Ag(0.48 s)	759.70(33), 650.20(20), 798.4(12)
569.45 *8*		^{122}Ag(1.5 s)	759.70
569.5 *3*	0.74 *5*	^{100}Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
• 569.5 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
569.5 *8*	1.8 *10*	^{186}Pt(2.0 h)	276.7(0), 611.5(6.0), 635.6(>3.8)
569.5 *1*	8.2 *8*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
569.6 *2*	1.1 *3*	^{129}Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
569.6 *8*	0.056 *12*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
• 569.6 *6*	>0.14	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
569.6	0.44 *20*	^{148}Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
569.6 *2*	0.070 *17*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
569.6	†<6	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
569.64 *22*	0.15 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
569.7 *4*	0.06 *6*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
569.7 *2*	48	^{167}Dy(6.20 m)	259.33(27.9), 310.26(25.0), 250.03(9.6)
569.702 *2*	0.00159 *20*	^{207}Tl(4.77 m)	897.80(0.260), 328.12(0.00140)
• 569.702 *2*	97.74 *3*	^{207}Bi(31.55 y)	1063.662(74.5), 1770.237(6.87), 1442.20(0.130)
569.702 *2*		^{211}Po(25.2 s)	897.80(1.65), 1063.662
569.702 *2*	0.5	^{211}Po(0.516 s)	897.80(0.561), 328.12(0.0033)
569.71 *6*	0.36 *12*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
569.71 *6*	1.44 *20*	^{186}Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
569.73 *14*	5.7 *3*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
569.77 *11*	0.113 *16*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
569.79 *15*	0.098 *6*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
569.8 *1*	5.6 *3*	^{92}Rb(4.492 s)	814.98(33), 2820.6(6.2), 1712.3(4.3)
569.8 *1*	800	^{93}Rb(5.84 s)	814.98(†27000), 963.5(†460), 393.5(†380)
569.8 *3*	0.043 *11*	^{112}Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
569.8 *7*	0.4 *3*	^{181}Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
• 569.81 *3*	0.145 *7*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
569.9 *11*	0.7 *3*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
569.90 *11*	0.48 *4*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 569.91 *9*	0.0051 *17*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
569.92 *4*	0.517 *22*	^{57}Mn(87.2 s)	122.0614(13.9), 14.41300(10.56), 692.03(5.50)
• 569.92 *4*	0.017 *1*	^{57}Co(271.79 d)	122.0614(85.60), 136.4743(10.68), 14.41300(9.16)
570.0 *14*	2.1 *15*	^{115}Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
570 *2*	10.5 *6*	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
570 *2*	11.1 *6*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
570.0 *1*	†0.15 *7*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
570.1 *1*	0.62 *7*	^{92}Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
570.1 *4*	0.58 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
570.10 *15*	0.24 *7*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
570.16 *5*	1.19 *6*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
570.2 *3*	1.69 *18*	^{129}In(0.61 s)	2118.0(45), 1865.0(32), 769.3(9.1)
570.2 *2*	0.17 *7*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
• 570.2 *5*	0.016 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
570.2 *1*	†1.24×10^{3} *24*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
• 570.203 *18*	0.0069 *5*	^{196}Au(6.183 d)	355.684(87), 332.983(22.9), 521.175(0.389)
570.26 *19*	0.46 *12*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
570.3		^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
570.3 *5*	†1.2	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
570.3 *3*	>0.011	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
570.3 *3*	0.054 *14*	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
570.32 *2*	0.072 *24*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
570.35 *19*	1.48 *19*	^{29}S(187 ms)	1383.51(19), 1953.83(17.02), 2422.5(15.5)
570.4 *2*	2.9 *5*	^{103}Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
• 570.4 *8*	0.0082 *21*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
• 570.4 *3*	†5×10^{06}	^{208}Po(2.898 y)	291.7(†9×10^{06}), 601.6(†4.1×10^{6}), 861.9(†2.8×10^{6})
• 570.42 *21*	0.0221 *16*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
570.449 *20*	0.191 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
570.50 *12*	3.47 *5*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
• 570.5 *6*	>0.14	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
570.5	0.016	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
570.51 *21*	1.7 *3*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
570.51 *7*	0.24	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
570.52 *15*	0.47 *8*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
570.56 *6*	0.108 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
570.57 *7*	0.062 *7*	^{88}Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
570.6 *6*	0.30 *9*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
570.6 *5*	0.05 *5*	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
• 570.60 *3*	1.225 *6*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
570.7 *5*	0.24	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
570.70 *7*	1.63 *8*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
570.70 *10*	1.12 *4*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
570.7 *3*		^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
570.72 *10*	0.80 *9*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
570.74 *5*	1.95 *16*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
570.75 *15*	0.34 *8*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
570.76 *10*	0.46	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
570.8 *4*	0.14 *5*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
570.8 *4*	0.07 *3*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
570.8 *1*	0.76 *12*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
570.8 *6*	0.031 *11*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
570.8 *3*	†3.9 *10*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
570.81 *5*	24.8 *17*	^{59}Mn(4.6 s)	726.7(42), 472.71(29.0), 591.20(9.4)
• 570.89 *3*	0.000125 *11*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
570.9 *7*	0.11 *5*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
570.9 *1*	†3.2 *3*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
570.9 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
570.9 *1*	0.65 *5*	^{226}Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
• 570.9 *1*	3.3×10^{-6} *5*	^{230}Th(7.538×10^{4} y)	67.67(0.376), 143.87(0.0486), 253.73(0.0111)
570.91 *2*	1.14 *8*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
570.91 *10*	0.168 *16*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
570.93 *10*	53 *2*	^{98}Ag(46.7 s)	863.1(100), 678.5(85), 452.0(11.0)
570.93 *9*	3.2 *3*	^{166}Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
570.937 *13*	1.56 *8*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
570.95 *7*	0.840 *22*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 72.70(0.59)
570.96 *27*	0.242 *7*	^{73}Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
• 570.990 *23*	5.55 *4*	^{166}Ho(1.20×10^{3} y)	184.410(72.6), 810.276(58.08), 711.683(55.32)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
571	†2.7	^{107}Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
571.0 *3*	†4 *3*	^{113}Ru(0.80 s)	263.2(†100), 211.7(†31.0), 337.5(†27.9)
571.0 *2*	0.096 *21*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
571.00 *20*	0.228 *19*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
571.0		^{201}At(89 s)	417.9, 6.5
• 571.0 *1*	0.0044 *11*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
571.06 *4*	4.52 *16*	^{80}Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
571.06 *10*	0.16 *4*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
571.06 *2*	1.54 *6*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
• 571.08 *9*	0.00242 *22*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 571.1 *6*	0.0055 *8*	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
571.1 *2*	0.59 *6*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
571.10 *10*	0.107 *25*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 571.10 *10*	1.08 *6*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
571.19 *20*	†0.55 *5*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
571.2 *3*	†98 *3*	^{139}I(2.29 s)	527.7(†100), 536.6(†67), 656.0(†58)
571.20 *10*	0.217 *25*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
571.2 *4*	0.19 *13*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
571.2 *4*	0.15 *10*	^{162}Tm(24.3 s)	811.52(6.5), 798.68(5.2), 227.52(5)
• 571.259 *15*	0.413 *10*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
571.27 *4*	5.39 *14*	^{157}Pm(10.56 s)	160.61(35), 188.052(13.5), 850.50(4.76)
• 571.28 *8*	0.062 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
571.3	†10	^{138}Eu(12.1 s)	346.6(†100), 544.2(†55), 685.4(†41)
571.3 *2*	0.0066 *14*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
571.30 *9*	0.26	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
571.35 *5*	0.368 *24*	^{79}Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
571.36 *14*	0.24 *4*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
571.4 *2*	†4.5 *9*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
• 571.498 *9*	0.139 *9*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
571.498 *9*	0.44 *22*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
571.5 *3*	0.65 *10*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
571.55 *5*	0.030 *11*	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
571.6 *2*	0.65 *10*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
571.6 *5*	†216 *12*	^{202}At(181 s)	677.4(†230), 442.9(†109)
571.65 *8*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
571.69 *19*	0.186 *13*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
571.74 *5*	3.0 *2*	^{126}In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
• 571.8 *5*	0.00053 *10*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
571.83 *6*	†100 *5*	^{142}Xe(1.22 s)	657.05(†79), 538.24(†77), 618.314(†72)
• 571.83 *8*	0.0048 *8*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
571.885 *4*	0.019 *4*	^{155}Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
571.9 *3*	0.0250 *25*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
571.9	>1.5	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
571.9 *2*	1.5	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
571.9 *5*	0.071 *11*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
571.94 *8*	4.3 *3*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
571.96 *16*	0.21 *3*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
• 571.962 *7*	0.213 *9*	^{148}Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 571.962 *7*	9.56 *22*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
572	0.009 *5*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
572 *1*	0.025 *12*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
572.0 *5*	0.57 *21*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
572 *1*	0.6	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
572.00 *20*	0.33 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
572.0 *10*	†8.7×10^2 *17*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
572.1	†<6	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
572.19 *15*	0.075 *21*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
572.2 *2*	†3.9 *6*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
572.2 *2*	0.30	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
• 572.20 *5*	1.25 *3*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
572.2 *4*	0.20 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
572.2 *2*	†3.2 *3*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
572.24 *10*	2.02 *13*	^{121}Cd(8.3 s)	2059.41(21.0), 1020.89(18.9), 987.81(13.6)
• 572.255 *15*	0.263 *4*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
572.26 *2*	10.4 *3*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
572.29 *10*	0.154 *16*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
572.29 *10*	0.46 *13*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 572.3 *3*	0.0369 *18*	^{75}Se(119.779 d)	264.6584(58.50), 136.0008(58.3), 279.5441(24.79)
572.3 *2*	0.17 *4*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
572.3 *2*	0.78 *14*	^{139}Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
572.3	0.262 *23*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
572.4 *3*	2.6 *7*	^{60}Zn(2.38 m)	670.3(64), 61.4(26), 273.4(10.9)
572.4 *4*	0.13 *6*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
572.4 *4*	0.33 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
572.4 *1*	0.107 *17*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
572.4	14 *2*	^{145}Tb(29.5 s)	257.8(39), 987.8(37), 537.0(23)
572.4 *5*	†0.83 *21*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
572.46 *14*	†22.0 *15*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
572.5 *2*	0.18 *6*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
572.5 *4*	0.059 *20*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
• 572.5 *2*	0.052 *11*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
572.5 *6*	0.020 *9*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
572.50 *25*	0.11 *3*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
572.6 *5*	0.07 *4*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
• 572.6 *2*	<0.005	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
572.6 *3*	0.106 *15*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 572.686 *15*	0.1563 *14*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
• 572.7 *2*	0.06 *3*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
572.7 *5*	0.15 *5*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
572.71 *17*	0.095 *24*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
• 572.731 *12*	0.108 *14*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
572.76 *6*	0.050 *10*	^{93}Mo(6.85 h)	949.82(0.120), 689.07(0.070), 541.32(0.060)
572.8 *8*	0.014	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
572.83 *15*	0.072 *11*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
572.87 *10*	1.5 *4*	^{110}Rh(3.2 s)	373.80(54), 439.79(6.5), 796.83(5.3)
572.9 *3*	18	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
572.9 *4*	0.14 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
572.9 *1*	1.87 *10*	^{242}U(16.8 m)	67.60(9.6), 55.58(3.90), 585.0(1.92)
572.968 *12*	1.99 *22*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
573		^{92}Br(0.343 s)	769(†100), 1446(†10), 1035(†6)
573.0 *3*	0.16 *3*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
• 573.0 *2*	6.7 *3*	^{126}Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
• 573.0 *8*	0.16 *5*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
573.0 *5*	0.018 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
573.1 *4*	0.26 *5*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
573.1 *1*	0.93 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
573.1 *4*	†1.4 *2*	^{168}W(51 s)	178.5(†100), 145.5(†<2), 352.2(†1.8)
• 573.139 *11*	80.3 *17*	^{121}Te(16.78 d)	507.591(17.7), 470.472(1.41), 65.548(0.259)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
573.2 *3*	19	^{87}Se(5.85 s)	242.5(37), 334.0(35), 468.0(18)
573.20 *10*	3.6 *1*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
• 573.2 *2*	0.029 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
573.23 *4*	0.281 *11*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
573.25 *50*	0.040 *4*	^{137}Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
573.25 *6*	14.2 *10*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 932.37(6.7)
573.27 *6*	0.073 *7*	^{88}Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
• 573.33 *10*	0.0194 *20*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
• 573.36 *9*	0.012 *3*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
573.36 *4*	0.0048 *7*	^{135}Xe(9.14 h)	249.770(90), 608.151(2.90), 408.009(0.359)
573.37 *19*	1.4 *3*	^{186}Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
573.4 *2*	0.32 *4*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
573.4 *1*	†0.40 *4*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
573.4 *4*	0.17 *6*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
573.4 *2*	0.0080 *20*	^{240}Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
573.5	0.34	^{144}Tb(4.25 s)	743.0(12), 1001.6(7), 959.36(4.7)
573.5 *2*	0.16 *5*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
573.5 *2*	0.0098 *15*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
• 573.55 *12*	0.0066 *13*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
573.6 *2*	0.29 *4*	^{100}Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
573.6 *4*	0.23 *7*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
573.6 *4*		^{130}Pr(40.0 s)	951.9, 499.0, 1405
573.66 *7*	25	^{82}Y(9.5 s)	602.14(10), 737.35(2.3), 1175.58(1.0)
573.68 *9*	0.54 *8*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
573.68 *13*	0.00052 *16*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
• 573.7 *5*	0.019 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
573.7 *5*	†0.5 *2*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
573.7 *4*	0.042	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
• 573.72 *9*		^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
573.8 *10*	0.037	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
573.84 *10*	0.46 *3*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
• 573.88 *4*	0.622 *12*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
• 573.882 *12*	0.344 *14*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
573.90 *30*	0.089 *10*	^{114}Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
573.9 *5*	0.087 *25*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
573.9 *2*	1.8 *5*	^{129}Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
• 573.94 *20*	†1.25×10^4 *19*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
574.0 *2*	5.6 *7*	^{122}Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
• 574 *1*	0.019 *10*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
574.0 *1*	0.45 *6*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
574.0 *1*	4.0 *3*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
574		^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
574.0 *3*	0.11 *3*	^{238}Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 574.01 *30*	0.000105 *11*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
574.05 *2*	0.14 *4*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
574.08 *30*	0.15 *3*	^{124}In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
574.08 *30*	0.90 *20*	^{124}In(2.4 s)	1131.64(100), 969.94(52), 1072.85(47)
574.1 *3*	0.16 *5*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
574.1 *2*	†1.9 *3*	^{225}Fr(4.0 m)	182.3(†100), 31.50(†91), 225.1(†55)
574.11 *3*	1.22 *6*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
574.11	0.72 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
574.14 *23*	0.076 *13*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
574.17 *3*	0.033	^{69}Zn(13.76 h)	

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 574.17 *3*	13.3 *11*	^{69}Ge(39.05 h)	1107.01(36), 872.14(11.9), 1336.72(4.5)
574.2 *4*	0.22 *5*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
574.2 *7*	0.24 *5*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
574.5 *5*	0.038 *5*	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
574.5 *1*	0.70 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
574.5 *10*	0.13 *3*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
574.6 *3*	12.7 *8*	^{69}Ni(11.4 s)	1871.1(40.9), 679.7(39.7), 1213.0(39.3)
574.6 *4*	0.47 *5*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
• 574.643 *7*	1.187 *23*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
574.67 *3*	6.74 *21*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
574.68 *20*	0.139 *17*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
574.69 *4*	0.17 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
574.7 *10*	0.25 *5*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
574.8 *1*	†31.6 *20*	^{75}Ga(126 s)	253.0(†100), 885.6(†11.1), 177.0(†10.7)
574.8 *5*	†4.8 *6*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
574.8 *1*	10.4 *10*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 149.1(6.9)
• 574.8 *3*	0.070 *8*	^{226}Ac(29 h)	230.37(27), 158.18(17.5), 72.20(0.56)
• 574.8 *3*	0.00030 *4*	^{230}U(20.8 d)	72.20(0.60), 154.23(0.125), 230.37(0.122)
574.83 *5*	0.87 *6*	^{81}Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
574.9 *4*	0.03 *3*	^{65}Ga(15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
574.9 *2*	0.029 *3*	^{71}Zn(2.45 m)	511.56(32), 910.27(7.8), 389.88(3.8)
574.9 *2*	0.112 *9*	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
574.9 *1*	0.031 *5*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
574.9 *1*	51 *5*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 361.2(37)
574.90 *4*	0.100 *10*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
574.9 *3*	15.4 *13*	^{181}Lu(3.5 m)	652.5(22.0), 205.94(16.1), 805.7(8.8)
574.9 *4*	†1.9 *6*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
574.9 *5*	†3.8 *6*	^{193}Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
• 574.97 *7*	0.117 *9*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
574.97 *14*	†8.1 *10*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
574.98 *15*	0.101 *17*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
575.0 *1*	0.130 *20*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
575.0 *1*	3.2 *3*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
575 *1*		^{191}Hg(49 m)	252.5(†100), 196.3(†65), 224.7(†60)
575.0 *1*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
575.0 *4*	†70 *14*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
575.0 *1*	3.1 *4*	^{198}Pb(2.40 h)	290.3(36), 365.4(19), 173.4(18)
575.05 *10*	2.4 *7*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
575.06 *10*	0.24 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
575.07 *12*	0.85 *10*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
• 575.1 *10*	0.0029 *11*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
575.1 *2*	2.83 *20*	^{163}Gd(68 s)	287.79(25), 214.0(11.5), 1562.1(9.0)
575.1 *1*	†98.0 *14*	^{194}Bi(92 s)	965.4(†100.0), 280.1(†73.7), 421.1(†59.9)
575.1 *2*	0.41 *7*	^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
575.12 *26*	0.046 *13*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
575.2 *7*	0.13 *4*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
575.3 *3*	0.37 *9*	^{106}In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
575.3 *1*	12	^{206}Fr(15.9 s)	559.0(8.19), 628.6(3.6), 161.4(1.2)
• 575.305 *11*	0.068 *5*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
575.33 *10*	0.76 *3*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
575.33 *38*	†6.0 *15*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
575.35 *10*	1.5 *3*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
575.4 *3*	6.3 *5*	^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
575.4 *1*	27 *3*	^{140}Gd(15.8 s)	174.8(76), 749.9(70), 379.0(38)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
575.4 *3*	0.008 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
575.4 *2*	†0.50 *23*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
575.5 *4*	0.26 *3*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
575.5 *10*	†0.9 *5*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
575.5 *1*	0.027 *8*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 575.51 *8*	0.031 *8*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 575.52 *5*	0.210 *21*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
575.558 *20*	0.0787 *24*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
575.6 *2*	0.35 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
575.6 *2*	†5.2 *10*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
• 575.64 *16*	0.021 *6*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
575.7 *5*	2.02 *24*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
575.7 *4*	0.021 *8*	^{138}Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
575.7 *3*	†2.0 *3*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
• 575.7 *7*	†0.0081 *19*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 575.75 *21*	0.13 *3*	^{99}Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
575.75 *21*	0.38 *4*	^{99}Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
575.8		^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
575.85 *5*	0.263 *11*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
575.9 *5*	0.162 *8*	^{73}Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
• 575.95 *25*	0.0195 *9*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
575.97 *8*	0.130 *23*	^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
• 575.97 *10*	0.046 *5*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
576.0 *3*	0.12 *3*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
• 576.0 *2*	0.065 *9*	^{146}Gd(48.27 d)	154.57(47), 115.51(44.0), 114.71(44.0)
576	0.0008	^{212}Bi(60.55 m)	39.858(1.091), 452.83(0.31), 288.07(0.31)
576.01 *7*	0.53	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
576.03 *12*	0.45 *10*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
576.08 *4*	1.77 *14*	^{114}Ag(4.6 s)	558.454(20.40), 1301.234(1.31), 1995.06(1.22)
576.08 *4*	2000 *21*	^{114}In(71.9 s)	558.454(†>34000), 747.15(†>93)
576.1 *6*	0.04 *3*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
576.1 *5*	0.014 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
576.10 *4*	3.24 *20*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 44.65(3.04)
576.1 *7*	0.07 *7*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
576.1	0.14	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
576.1 *4*	0.0012 *3*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
576.18 *5*	0.197 *11*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
576.2 *5*	0.24	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
• 576.2	0.044 *7*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
576.2 *3*	†13	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
• 576.21 *4*	0.188 *6*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
576.27 *8*	0.37 *3*	^{80}Ge(29.5 s)	265.36(27.0), 110.4(6.5), 1564.3(4.9)
576.3 *4*	3.35 *12*	^{51}Sc(12.4 s)	1437.3(52), 2144.1(31.8), 1567.5(14.9)
576.3 *2*	0.4	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
576.3 *2*	0.20 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
576.3 *5*	0.10 *3*	^{184}Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
576.33 *8*	0.0066 *11*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
• 576.36 *10*	0.112 *10*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
576.38 *3*	1.01 *8*	^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
• 576.396 *12*	0.70 *6*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
576.4 *2*	0.38 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
576.4 *3*	0.26 *4*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
• 576.4 *1*	0.118 *9*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
576.42 *28*	0.32 *3*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
576.5 *4*	12.1 *10*	^{72}Kr(17.2 s)	415.1(34.7), 310.0(28.5), 162.2(16.3)
576.5 *6*	0.29 *4*	^{170}Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
576.5 *2*	†9 *2*	^{181}Ir(4.90 m)	107.64(†100), 1639.6(†52), 318.9(†46)
576.5 *3*	0.13 *3*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
576.50 *20*	0.54 *6*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
576.51 *7*	0.17 *5*	^{115}Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
576.53 *5*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
576.57 *4*	0.85 *3*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
576.6	0.75 *9*	^{95}Sr(23.90 s)	685.6(23), 2717.3(4.6), 2933.1(4.1)
576.6 *1*	0.44 *14*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
576.6 *1*	1.8 *4*	^{108}Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
576.6 *8*	0.033 *6*	^{157}Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
576.6 *2*	†1.7 *5*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
• 576.62 *10*	0.014 *3*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
576.7 *3*	0.227 *16*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
576.70 *20*	0.93 *4*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
576.7	0.26 *13*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
576.74 *10*	0.111 *11*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
• 576.8 *4*	0.016 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
576.8 *5*	†0.9 *3*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
576.82 *11*		^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
• 576.835 *18*	0.302 *13*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
576.85 *7*	0.045 *9*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
576.9 *4*	0.09 *3*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
576.9 *6*	0.025 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
576.9 *2*	†2.12 *21*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
576.96 *10*	5.7 *3*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
577.0 *4*	0.019 *5*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
577.0 *3*	1.07 *20*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
577.0 *5*	0.11 *4*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
577.0 *2*	†9.8 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
577.09 *2*	5.14 *17*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
577.1 *3*	0.055 *16*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
577.10 *9*	0.55 *4*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
577.10 *8*	0.98 *6*	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
577.17 *4*	0.946 *25*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
577.2 *3*	0.15 *4*	^{73}Ga(4.86 h)	297.32(79.8), 325.70(11.17), 739.42(4.23)
577.2 *5*	1.20 *17*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
577.2 *1*	†10.7 *8*	^{160}Lu(36.1 s)	243.2(†100), 395.4(†21.0), 1115.3(†6.8)
577.25 *15*	†2.5 *3*	^{131}Ce(5.0 m)	230.43(†100), 436.85(†7.3), 462.9(†6.9)
577.29 *4*	1.20 *9*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
577.3 *2*	0.172 *23*	^{96}Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
577.3 *3*	0.55 *11*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
577.3	0.050 *13*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
577.3 *2*	†7 *3*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
577.3 *1*	0.045 *5*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
577.36 *15*	0.50 *8*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
577.36 *4*	0.400 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
577.40 *20*	0.042 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
577.49 *9*	>0.0017	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
577.49	>0.0017	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
577.50 *20*	0.992 *14*	^{73}Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
577.5 *2*	3.7 *5*	^{84}As(5.5 s)	1455.1(49), 667.1(20.7), 2086.6(4.7)
577.5 *2*	0.96 *14*	^{85}As(2.028 s)	1455.1(16), 667.1(6.8), 1244.6(0.64)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
577.5 *1*	0.09 *4*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
577.5 *4*	0.23 *12*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
577.6 *2*	0.035 *9*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
577.60 *20*	0.044 *5*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
577.69 *12*	0.35 *5*	^{157}Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
577.7 *2*	0.068 *10*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
577.70 *5*	4.06 *25*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
577.7 *4*	0.24 *6*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
577.7 *5*	†1.5 *4*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
577.8 *3*	0.89 *24*	^{141}Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
577.8	0.17	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
577.9 *5*	0.05 *3*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
577.9 *4*	2.4 *3*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
577.9 *2*	1.9 *5*	^{129}Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
577.9 *3*	†<0.15	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
577.9 *3*	†3.4 *7*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
577.9	1.2	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
577.9 *2*	0.00051 *19*	^{161}Ho(2.48 h)	25.65150(27), 103.062(3.9), 77.414(1.91)
577.9 *3*	0.0084 *22*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
577.91 *15*	0.245 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
577.95 *3*	8.5 *4*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
577.97 *10*	4.4 *3*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
578.0 *7*	0.5 *4*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
578.0 *2*	0.43 *8*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
578.0 *3*	0.64 *6*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
578.0 *5*	†3.8 *19*	^{195}Pb(15 m)	883.1(†100), 393.7(†42), 871.0(†36)
• 578.02 *22*	0.032 *6*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
• 578.049 *16*	0.166 *4*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
578.06 *18*	0.60 *7*	^{90}Br(1.92 s)	707.05(38.0), 1362.32(11.2), 655.17(7.7)
578.080 *11*	0.0235 *12*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
578.09 *4*	1.33 *5*	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
578.1 *2*	0.00133 *10*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
578.13 *2*	1.5 *5*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
578.2	13	^{145}Dy(13.6 s)	639.6(12), 804.3(10), 39.7
578.2 *2*	0.18 *6*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
578.22 *7*	0.40	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
578.26 *20*	0.0015 *4*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
578.38 *9*	0.0084 *8*	^{106}Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
578.38 *9*	0.0065 *8*	^{106}Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
578.5		^{130}Pr(40.0 s)	951.9, 499.0, 1405
• 578.5 *7*	†0.0081 *19*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 578.5 *2*	4.9×10^{-6} *5*	^{233}U(1.592×10^5 y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
578.55 *5*	<1.0	^{68}Cu(3.75 m)	1339.96(12.0), 1077.35(12), 1041.3(9.6)
578.55 *5*	1.7 *4*	^{68}Cu(31.1 s)	1077.35(64), 1260.97(12.5), 1883.09(2.4)
578.55 *5*	0.030 *4*	^{68}Ga(67.629 m)	1077.35(3.0), 1883.09(0.130), 1260.97(0.0900)
578.56 *4*	7.3 *4*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
578.58 *16*	0.066 *7*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
578.6 *6*	0.33 *11*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
578.6 *3*	1.0	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
578.6 *5*	0.020 *6*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
578.6 *3*	17.6 *18*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 274.2(13)
• 578.66 *15*	0.0035 *3*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
578.66 *15*	†2.1 *3*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
578.7 *1*	0.059 *4*	^{66}Ga(9.49 h)	1039.30(37), 2752.01(23.38), 833.50(5.89)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
578.7 *4*	†2.1 *6*	^{113}Ru(0.80 s)	263.2(†100), 211.7(†31.0), 337.5(†27.9)
578.7 *3*	0.17 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
578.72 *11*	0.0010 *4*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
578.73 *17*	0.084 *10*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
578.75 *3*	18	^{136}Te(17.5 s)	2077.9(22), 333.99(19), 2569.4(15)
578.75 *3*		^{137}Te(2.49 s)	738.2, 630.7, 333.99
578.8 *2*	†2.9 *3*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 578.853 *9*	2.96 *7*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
578.9 *1*	2.70 *25*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
578.9 *1*	†14	^{96}Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
578.9 *4*	0.22 *7*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
• 578.91 *6*	0.445 *8*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
579.0 *6*	0.057 *15*	^{139}Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
579.04 *14*	0.024 *10*	^{88}Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
579.04 *4*	0.39 *4*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
579.08 *15*	0.06	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
579.2 *3*	0.65 *13*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 484.501(11.3)
579.2 *3*	0.229 *19*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
579.2 *6*	†2.5	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
579.28 *3*	0.075 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
579.298 *13*	0.040 *6*	^{200}Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
579.298 *13*	†121 *9*	^{200}Au(18.7 h)	497.77(†123), 367.943(†123), 255.87(†119)
• 579.298 *13*	13.8 *7*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 828.320(10.8)
579.36 *5*	2.44 *11*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
579.4 *5*	†35 *4*	^{102}Y(0.36 s)	151.73(†100), 326.64(†53), 1091.3(†42)
579.4 *2*	3.4 *6*	^{129}Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
579.4 *1*	0.056 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
579.4 *3*	0.23 *4*	^{167}Dy(6.20 m)	569.7(48), 259.33(27.9), 310.26(25.0)
• 579.40 *5*	0.448 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
579.4 *3*	†2.7 *6*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
579.4 *8*	1.2 *9*	^{186}Pt(2.0 h)	276.7(0), 611.5(6.0), 635.6(>3.8)
• 579.4 *3*	8.6×10^{-8} *17*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
579.510 *13*	1.59 *4*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
579.6 *5*	0.74 *7*	^{169}Ho(4.7 m)	788.4(21.2), 853.0(11.2), 760.8(10)
579.68 *14*	0.076 *13*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
579.7	0.4 *1*	^{36}P(5.6 s)	3290.7(100), 901.8(70.4), 1638.2(35.3)
579.7 *3*	0.8 *3*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
• 579.73 *3*	2.3325 *6*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
• 579.78 *6*	1.06 *4*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
579.8 *3*	0.088 *18*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
• 579.8 *3*	0.10 *3*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
579.8 *5*	0.042 *9*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 579.854 *5*	0.00192 *3*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
• 579.88 *4*	0.127 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
579.9	†3.6	^{144}Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
579.9 *3*	1.2 *3*	^{176}Re(5.3 m)	240.17(48), 109.08(25.0), 848.7(4.0)
579.9 *3*	0.122 *18*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
579.92 *10*	0.051 *6*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
579.97 *9*	0.056 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
580.00 *8*	0.8	^{111}Pd(23.4 m)	70.44(0.78), 1459.0(0.56), 650.4(0.552)
580.0 *5*	0.10 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
580.03 *4*	0.408 *24*	^{89}Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
• 580.1 *4*	0.008 *3*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
580.1 *4*	$\dagger5.0\times10^{2}$	^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
580.1 *4*		^{130}Pr(40.0 s)	951.9, 499.0, 1405
580.1 *3*	0.42 *4*	^{139}Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
580.1 *3*	0.35 *9*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
580.15 *4*	0.35 *5*	^{214}Pb(26.8 m)	351.921(35.8), 295.213(18.5), 241.981(7.50)
580.16 *6*	0.94 *4*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
580.2 *3*	0.018 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
580.2 *1*	†0.6 *1*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
580.23 *5*	0.242 *24*	^{79}Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
580.25 *25*	0.23 *4*	^{95}Y(10.3 m)	954.00(16), 2175.6(7.00), 3576.0(6.4)
580.3	0.33	^{83}Zr(44 s)	55.55(8), 104.97(5.70), 475.1(5.1)
580.3 *10*	†2 *1*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
580.3 *1*	0.08	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
580.399 *25*	1.00 *8*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
580.4 *1*	0.121 *24*	^{79}Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
580.4	>0.039	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
580.4	2.2	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
580.4 *3*	0.21 *5*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
• 580.4		^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
580.5 *10*	0.6	^{151}Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
580.5 *10*	0.54 *18*	^{185}Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
580.5 *2*	†5.9 *6*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 580.505 *65*	0.0044 *5*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
580.57 *10*	4.79 *14*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
580.58 *61*	0.06 *3*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
580.6 *3*	0.77 *8*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
580.6 *1*	13	^{137}Nd(38.5 m)	75.5(17.0), 306.60(10.0), 781.6(9.3)
580.60 *10*	0.210 *22*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
580.65 *5*	>0.0007	^{85}Kr(4.480 h)	151.159(75.0), 129.820(0.300), 450.85(0.011)
580.65 *5*	†0.086 *9*	^{85}Sr(67.63 m)	151.159(†1272), 129.820(†15), 731.812(†1.45)
580.7 *4*	0.44 *10*	^{142}Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
• 580.7 *6*	0.052 *21*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
580.7 *3*	†43.3 *19*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
580.7 *2*	0.0070 *20*	^{240}Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
580.75 *20*	0.035 *3*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
580.77 *18*	0.56 *5*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
580.8 *8*	0.06 *6*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
580.82	0.0659 *22*	^{159}Gd(18.479 h)	363.55(11.4), 58.00(2.15), 348.16(0.234)
580.83 *15*	0.53 *8*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
580.9 *5*	0.081 *22*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
580.9		^{157}Lu(5.0 s)	967.5, 949.8, 880.5
580.9 *3*	0.0084 *22*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
580.903 *19*	0.112 *19*	^{180}Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
580.95 *25*	0.9 *3*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
580.97 *8*	†32 *17*	^{193}Hg(3.80 h)	861.11(†100), 1118.84(†64), 789.21(†36)
581.0 *4*	0.6	^{99}Zr(2.1 s)	469.140(55), 546.13(48.6), 593.990(27.4)
581.0 *10*	0.47 *16*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
581 *1*	13.3 *18*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
581.0 *1*	4.0 *4*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
581.0 *5*	0.15 *5*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
581.0 *6*	1.2 *3*	^{166}Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
581.0 *2*	†1.0 *3*	^{168}Re(4.4 s)	199.3(†100), 363.2(†95), 479.8(†62.8)
581.1 *3*	0.145 *19*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
581.1 *2*	60 *4*	^{108}Rh(6.0 m)	433.937(88), 947.27(49), 901.31(28)
581.1 *5*	0.0011 *5*	^{141}La(3.92 h)	1354.52(1.64), 1693.3(0.074), 2267.0(0.0413)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 581.1 *6*	0.0045 *14*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
581.1 *2*	†1.2 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
581.1 *2*	0.20 *4*	^{236}Th(37.5 m)	110.8(4.2), 646.6(0.72), 196.0(0.69)
581.12 *10*	0.62 *6*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
581.19 *10*	†81 *10*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 581.19 *10*	0.38 *4*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
581.2 *4*	0.27 *9*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
581.26 *6*	0.363 *22*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
581.29 *9*	0.70 *10*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
• 581.30 *12*	0.0010 *5*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
581.3 *4*	0.0015 *3*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
581.36 *14*	0.060 *9*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
581.38 *15*	0.50 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
581.39 *8*	0.0120 *12*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
• 581.398 *8*	6.0 *3*	^{232}Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
581.4 *2*	0.36 *6*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
581.4 *4*	0.132 *12*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
581.4 *6*	3.4 *2*	^{154}Pr(2.3 s)	162.4(15), 932.1(11.7), 70.8(11.22)
581.4 *4*	†4.2 *6*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
581.5 *3*	0.51 *8*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
581.57 *5*	0.274 *14*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
581.6 *2*	0.35 *7*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
• 581.60 *12*	0.0197 *20*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
581.6 *3*	>0.016	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
581.7 *5*	0.21 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
581.7 *1*	0.184 *12*	^{143}La(14.2 m)	620.3(2.34), 643.75(1.55), 621.4(1.52)
581.7 *5*	†1.9 *4*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
581.7 *1*	0.53 *4*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 581.7 *1*	0.132 *16*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
• 581.7 *1*	0.000012 *5*	^{234}U(2.455×10^5 y)	53.20(0.123), 120.90(0.0342), 454.95(0.000025)
581.8 *5*		^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
581.8 *2*	†3.6 *8*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
• 581.8 *6*	0.016 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
581.80 *10*	0.19 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
581.82 *10*	18.8 *7*	^{194}Pb(12.0 m)	1519.45(16.4), 203.82(16.2), 367.80(8.1)
581.9 *3*	0.96 *14*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
581.9 *1*	1.83 *13*	^{230}Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
581.93 *9*	8.6 *3*	^{110}In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
• 581.97 *8*	0.485 *25*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
581.99 *4*		^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
582.0 *3*	0.21 *3*	^{63}Fe(6.1 s)	994.8(14.0), 1427.2(4.6), 1299.0(1.23)
582.00 *10*	4.26 *17*	^{83}As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
582.0 *3*	0.33 *7*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
582.0 *2*	0.54 *10*	^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
• 582.082 *3*	†101 *13*	^{95}Nb(86.6 h)	204.117(†4290), 786.198(†29), 820.624(†0.7)
• 582.082 *3*	29.96 *5*	^{95}Tc(61 d)	204.117(63.25), 835.149(26.63), 786.198(8.66)
• 582.096 *12*	0.894 *7*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
582.12 *20*	1.26 *17*	^{160}Yb(4.8 m)	173.74(42.0), 215.78(20.2), 140.35(9.3)
582.2 *1*	†210 *76*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
582.2 *2*	†5.5 *5*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
582.25 *21*	2.8 *3*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
582.3 *2*	0.035 *10*	^{87}Kr(76.3 m)	402.586(49.6), 2554.8(9.2), 845.43(7.34)
582.3	7	^{140}I(0.86 s)	376.657(91), 457.630(59), 936.7(16)
• 582.3 *2*	0.189 *20*	^{144}Pm(363 d)	696.510(99), 618.01(98.6), 476.8(42.0)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
582.3 *1*	†20.2 *8*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
582.3 *3*	0.11 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
582.30 *5*	0.96 *15*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
582.35 *9*	0.074 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
582.4 *1*	†74 *4*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
582.49 *24*	†4.4 *7*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
582.5 *3*	6.3 *4*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 507.25(5.5)
582.5 *1*	0.65 *7*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
582.5 *3*	0.060 *10*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
582.54 *3*	0.782 *16*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
• 582.567 *3*	0.0016 *10*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
• 582.60 *11*	0.0009 *6*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
• 582.6	0.058 *7*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
582.6 *4*	0.123 *20*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
• 582.6	†2.3×10^3 *12*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
582.63 *22*	†8.6 *13*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
582.63 *8*	2.68 *4*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
582.67 *5*	0.65 *3*	^{204}Po(3.53 h)	883.984(29.9), 270.068(27.8), 1016.31(24.1)
• 582.797 *6*	6.15×10^{-7} *18*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
582.84 *13*	1.4	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
582.88 *20*	0.93 *13*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
582.9 *9*	0.090 *24*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
582.9 *3*	1.0 *2*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
582.9	0.018 *8*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
582.92 *14*	0.41	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 582.93 *15*	0.018 *4*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
583.0 *3*	1.36 *12*	^{97}Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
583.0 *5*	0.7 *4*	^{113}Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
583.0	1.2	^{134}Nd(8.5 m)	163.2(58), 288.9(13), 216.8(12)
583 *1*	0.32 *19*	^{162}Tm(24.3 s)	811.52(6.5), 798.68(5.2), 227.52(5)
583.0 *5*	0.11 *4*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
583 *1*	>0.17	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
583.0 *5*	†2.9	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
• 583 *1*	0.00442 *17*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
583.02 *9*	†100	^{22}Mg(3.857 s)	73.97(†59.5), 1279.9(†5.71)
583.03 *3*	0.049 *13*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 583.1 *2*	0.026 *3*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
583.1 *5*	†1.9 *4*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
583.17 *6*	0.084 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
583.191 *2*	84.5 *7*	^{208}Tl(3.053 m)	2614.533(99), 510.77(22.6), 860.564(12.42)
583.191 *2*	2.0	^{212}Po(45.1 s)	2614.533(2.6)
583.2 *2*	0.71 *5*	^{164}Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
583.20 *18*	1.10 *15*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
583.26 *3*	10.5 *11*	^{98}Y(2.0 s)	1223.0(80), 620.505(63), 647.58(53)
583.26 *3*	2.34 *22*	^{98}Y(0.548 s)	1223.0(36.0), 2941.3(16.7), 1590.9(14.7)
583.29 *12*	2.82 *5*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
583.3 *5*	0.52 *8*	^{117}I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
583.3 *4*	3.3 *3*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
583.3 *4*	†1.5 *5*	^{129}Sb(17.7 m)	759.8(†100.0), 657.78(†92), 433.76(†73)
583.3 *2*	†0.45 *18*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
583.3 *4*	†8.6 *20*	^{233}Pu(20.9 m)	235.4(†100), 534.8(†90.2), 500.3(†38.6)
583.34 *3*	2.18 *13*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
583.38 *9*	0.55 *6*	^{75}Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
583.4 *3*	0.28 *8*	^{141}Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 583.4 *2*	0.194 *15*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 583.4 *5*	0.019 *8*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
583.41 *5*	0.114 *11*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
583.43 *5*	0.97 *6*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
583.5 *3*	0.41 *12*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
583.5 *2*		^{131}Sn(56.0 s)	3267.5, 2470.5, 2039.25
583.5 *2*		^{131}Sn(58.4 s)	367.40, 285.0, 62.9
583.5 *2*	†5.2 *10*	^{131}Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
583.5 *3*	0.18 *7*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
583.5 *5*	0.64 *21*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
583.5 *2*	0.0130 *22*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
583.5 *2*	<0.2	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
583.53 *9*	†40 *6*	^{168}Lu(5.5 m)	1483.65(†100), 228.58(†97), 111.8(†68)
583.55 *3*	†41	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
583.6 *5*	0.09 *3*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
583.6 *5*	0.023 *7*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
583.6 *5*	0.26 *6*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
583.6 *3*	0.046 *13*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
583.6	0.18 *6*	^{148}Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
583.6 *3*	0.67 *17*	^{180}Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
583.6 *3*	†5.8 *3*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
• 583.63 *7*	0.076 *6*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
583.7 *3*	0.4 *1*	^{148}Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
583.78 *14*	0.10 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
583.8 *3*	0.029 *15*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
583.8 *3*	†>1.4	^{96}Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
583.8 *3*	0.21 *3*	^{113}Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
583.8 *3*	3.6	^{113}Ag(68.7 s)	316.3(18), 392.3(11), 298.58(10)
583.8 *2*	0.093 *12*	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
583.8	†10.1 *15*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
583.8 *4*	†0.50 *20*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
583.84 *9*	1.33 *4*	^{82}Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
583.9 *3*	†7 *2*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
583.9 *1*	1.04 *5*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
583.9	>0.026	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
583.9 *1*	0.37 *7*	^{240}Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
583.98 *6*	7.0 *7*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
584.0 *3*	0.62 *9*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
584.0 *1*	0.61 *20*	^{108}Tc(5.17 s)	242.25(82), 465.6(14.3), 707.81(11.4)
584.0 *1*	0.53 *6*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
584.0 *2*	0.338 *20*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
584.06 *42*	0.009 *4*	^{137}Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
584.07 *7*	0.64 *8*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
584.1 *2*	†1.5 *1*	^{75}Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
584.1 *1*	†1.92 *16*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
584.1 *7*	0.154 *22*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
584.1 *1*	0.175 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
584.18 *8*	1.2 *3*	^{102}Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
584.2 *4*	0.24 *6*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
584.2 *4*	1.5 *3*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
• 584.2 *11*	0.33 *18*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
584.21 *9*	6.49 *20*	^{110}In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
584.27 *25*	0.067 *14*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
• 584.274 *12*	52.6 *14*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 737.455(9.60)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
584.3 *6*	0.34 *4*	^{170}Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
584.3 *10*	0.14 *3*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 584.32 *2*	2.84 *20*	^{254}Es(39.3 h)	648.80(28.4), 693.79(24.3), 688.68(12.3)
• 584.35 *15*	0.0119 *7*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
584.4 *5*	†8 *3*	^{112}Te(2.0 m)	372.70(†100), 296.20(†86), 418.9(†57)
584.4 *3*	†1.8 *4*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
584.43 *4*	5.5 *5*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
584.43 *4*	1.10 *22*	^{186}Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
• 584.49 *20*	0.00091 *10*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
584.5 *6*	3.2 *12*	^{69}Ni(11.4 s)	1871.1(40.9), 679.7(39.7), 1213.0(39.3)
584.5 *4*	0.30 *14*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
584.52 *6*	9.8 *3*	^{86}Nb(88 s)	751.74(97.8), 914.81(78.1), 1003.24(37.4)
584.55 *5*	3.56 *16*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
584.56 *17*	10.9 *11*	^{110}Rh(28.5 s)	373.80(91), 546.90(42.4), 687.70(25.8)
584.6 *5*	0.15 *3*	^{115}Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
584.6 *3*	0.29 *5*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
• 584.6 *6*	0.031 *21*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
584.6 *5*	†6.0 *10*	^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
584.7 *15*	0.4 *1*	^{46}Ar(8.4 s)	1944.30(100), 1020.3(0.8), 288.1(0.7)
• 584.725 *17*	0.336 *10*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
584.734 *10*	0.175 *5*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
584.8 *1*	0.147 *20*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
584.8 *2*	0.37 *11*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
584.8 *2*	6.1 *17*	^{152}Ho(161.8 s)	613.8(73), 613.8(14), 1098.0(12)
584.8 *3*	0.06 *3*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
584.81 *5*	0.066 *7*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
584.82 *15*	0.033 *4*	^{63}Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
584.86 *9*	0.091 *7*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
• 584.9 *4*	0.0086 *16*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
584.9 *2*	0.019 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
584.9 *2*	†17 *3*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
584.97 *7*	0.070 *10*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
585.0 *2*	0.59 *7*	^{92}Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
585.0 *2*	†1.9 *4*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
585 *1*	0.010 *5*	^{113}Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
585.0 *1*	4.9 *4*	^{119}Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
• 585.00 *20*	0.0005 *3*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
585.0 *1*	1.92 *10*	^{242}U(16.8 m)	67.60(9.6), 55.58(3.90), 572.9(1.87)
585.02 *9*	7.97 *24*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
585.03	13.00 *18*	^{25}Na(59.1 s)	974.72(14.95), 389.70(12.68), 1611.711(9.48)
585.03	0.023 *5*	^{25}Al(7.183 s)	1611.711(0.79), 974.72(0.024), 389.70(0.023)
• 585.041 *15*	1.193 *14*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
585.1 *3*	0.20 *5*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
585.12 *5*	0.32 *5*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
585.13 *5*	1.99 *8*	^{195}Hg(9.9 h)	779.80(7), 61.46(6.2), 180.11(1.90)
585.2 *2*	21.0 *7*	^{97}Rb(169.9 ms)	167.1(26), 600.5(10.6), 520.0(6.3)
585.2 *5*	0.75 *25*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
• 585.2	3.7×10^{-5}	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
585.22 *3*	1.45 *12*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
585.24 *17*	0.49 *5*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
585.24 *17*	0.41 *5*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
585.3 *2*	0.21 *3*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
585.39 *11*	0.270 *17*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
585.40	>0.0037	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
585.4 *3*	0.039 *9*	^{112}Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
585.4 *5*	0.29 *10*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
585.4 *5*	0.04 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 585.443 *10*	1.57 *3*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
585.46 *20*	0.018 *6*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
585.5 *23*		^{87}Mo(13.4 s)	262.5(†100), 397.0(†33)
585.5 *4*	†0.9 *3*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
585.5 *3*	0.47 *7*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
585.5	0.7	^{199}Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
585.54 *6*	0.0311 *18*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
585.59 *6*	0.026 *7*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
585.6 *15*	0.55 *18*	^{68}Cu(3.75 m)	1339.96(12.0), 1077.35(12), 1041.3(9.6)
585.6 *3*	0.113 *13*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
585.6 *5*	†0.9 *3*	^{126}Cd(0.506 s)	260.09(†100), 428.11(†83.7), 688.23(†5.9)
585.6 *1*	0.045 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
585.6 *1*	3.5 *3*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
585.6 *2*	0.31 *4*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
585.62 *6*	0.21 *5*	^{183}Os(9.9 h)	1101.94(49.0), 1107.92(22.36), 1034.85(6.02)
585.7 *2*	0.53 *7*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
585.8 *1*	0.11 *1*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
585.8 *3*	†4.5 *9*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
• 585.80 *7*		^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 585.80 *7*	0.047	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
• 585.80 *15*	0.0152 *9*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
585.804 *49*	29.5 *15*	^{227}Fr(2.47 m)	90.035(39), 64.267(14.5), 433.824(5.1)
585.86 *20*	0.051 *8*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
585.9 *2*	0.22 *4*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
585.9 *4*	1.1 *3*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
585.9	>15	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
585.9 *2*	4.2 *4*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
585.93 *8*	14.6 *8*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.9(>15)
585.944 *6*	0.18 *3*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
585.97 *10*	0.85 *9*	^{106}Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 585.97 *10*	0.44 *10*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
586.0 *4*	0.019 *7*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
586.0 *3*	†2.3 *4*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
586.01 *8*	79.7 *14*	^{47}K(17.5 s)	2013.45(93), 564.79(13.27), 2578.26(5.60)
586.03 *4*	16.6 *9*	^{89}Kr(3.15 m)	220.948(20.1), 904.27(7.2), 1472.76(6.9)
586.05 *3*	1.69 *6*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
586.05 *3*	1.07 *3*	^{130}I(9.0 m)	536.09(16), 1614.10(0.447), 1122.15(0.168)
586.05 *3*	0.47 *5*	^{130}Cs(29.21 m)	536.09(3.8), 894.5(0.39), 1614.10(0.26)
586.05 *3*		^{130}Cs(3.46 m)	536.09(†100), 470.8(†8.6), 206.6(†1.7)
586.05 *17*	1.15 *15*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
• 586.06 *9*	0.020 *3*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
• 586.092 *5*	1.53×10^{-7} *15*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
586.1 *5*		^{88}Nb(14.5 m)	1082.53(103), 1057.01(100), 671.20(64)
586.1 *2*	0.004 *2*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
586.1 *3*	†2.0 *4*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
• 586.111 *42*	0.0129 *12*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
586.13 *15*	0.26 *4*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
586.15 *13*	†3.5 *7*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
586.16 *3*	5.1 *3*	^{80}Ga(1.697 s)	659.14(78.0), 1083.47(48.4), 1109.36(18.6)
586.2 *3*	3.5 *20*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
• 586.2 *3*	0.022 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
586.2 *4*	0.24 *3*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
586.2 *2*	0.59 *13*	^{196}Os(34.9 m)	407.9(5.9), 126.2(5.3), 315.4(2.5)
586.294 *6*	0.0130 *9*	^{152}Eu(9.274 h)	344.281(2.44), 1314.67(0.956), 970.38(0.604)
• 586.294 *6*	0.459 *10*	^{152}Eu(13.542 y)	344.281(26.58), 778.91(12.96), 411.115(2.231)
586.294 *6*	†223 *14*	^{152}Tb(17.5 h)	344.281(†1500), 271.135(†203), 778.91(†137)
586.294 *6*	1.42 *12*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
• 586.30 *3*	2.58 *10*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
586.3 *2*	0.17	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
586.3 *1*	0.072 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
586.4 *3*	0.28 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
586.4 *2*	0.09 *4*	^{236}Th(37.5 m)	110.8(4.2), 646.6(0.72), 196.0(0.69)
586.44 *3*	0.163 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
• 586.44 *15*	0.035 *6*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
586.45 *3*	17	^{191}Au(3.18 h)	277.88(7.2), 674.19(6.8), 283.91(6.7)
586.45 *7*	0.0063 *5*	^{250}Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
586.45 *7*	0.39 *10*	^{250}Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
586.46 *17*	†4.2 *6*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
586.5 *4*	†30.2 *21*	^{71}Cu(19.5 s)	489.7(†100), 595.2(†30.5), 674.8(†25.4)
586.5 *4*	0.44 *15*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
586.5 *6*	2.0 *4*	^{103}In(65 s)	187.97(55), 720.32(13.9), 739.95(10.1)
• 586.59 *20*	†1.31×10^4 *20*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
586.6 *2*	15.4 *20*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 590.6(11.0)
586.6 *1*	†20 *2*	^{153}Yb(4.2 s)	547.4(†100), 674.1(†61), 369.6(†32)
586.6		^{157}Lu(5.0 s)	967.5, 949.8, 880.5
586.61 *2*	0.36 *6*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
586.62 *20*	1.53 *5*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
586.7 *1*	0.0232 *25*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
586.7 *3*	0.107 *7*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
586.71 *4*	0.618 *19*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
586.71 *8*	0.298 *16*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
586.72 *9*	0.09	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
586.8 *5*	0.27 *5*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
586.8 *3*	0.21 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
586.87	>0.00038	^{42}K(12.360 h)	1524.70(18), 312.6(0.336), 899.43(0.0515)
586.9 *2*	0.015 *3*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
586.9 *2*	†2.2 *3*	^{136}Pm(107 s)	373.8(†100), 602.7(†38.4), 857.2(†23.4)
586.9 *4*	0.63 *4*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
587.0 *1*	0.31	^{43}Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
587	†1	^{92}Br(0.343 s)	769(†100), 1446(†10), 1035(†6)
587.0 *3*	0.94 *10*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
587.0 *4*	†3.8	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
587.0	†0.8 *2*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
587.0 *2*	0.86 *9*	^{230}Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
587.0 *2*	<0.2	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
587	†1.0	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
587.01 *5*	4.21 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
587.02 *8*	1.34 *10*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
587.04 *8*	0.49 *5*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
587.1 *4*	†3.0 *8*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
587.1 *3*	0.33	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
• 587.15 *15*	0.030 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
587.19 *18*	0.69 *17*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
587.2 *3*	0.12 *6*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
587.2 *3*	0.78 *18*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 587.20 *2*	0.267 *3*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
587.2	0.053 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
587.2 *3*	0.20 *4*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
587.2 *3*	†185	^{198}Tl(1.87 h)	636.4(†202), 411.8044(†202), 226.2(†19)
587.3 *5*	0.66 *17*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
587.3 *4*	0.11 *4*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
587.3 *3*	1.22 *19*	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
587.37 *15*	0.0071 *24*	^{139}Pr(4.41 h)	1347.33(0.47), 1630.67(0.343), 255.11(0.236)
587.4 *3*	1.22 *19*	^{154}Ho(3.10 m)	334.6(94), 412.4(79), 477.1(55)
587.4 *3*	0.79 *8*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
587.44 *24*	0.121 *7*	^{72}Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 587.44 *6*	0.063 *12*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
587.46 *2*	15.6 *5*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
• 587.47 *20*	0.00036 *4*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
587.5 *4*	0.119 *11*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
587.5 *3*	0.063 *6*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
• 587.52 *6*	0.117 *4*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
587.6 *4*	0.100 *19*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
587.60 *15*	0.09 *4*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
587.6 *6*	†8.9 *10*	^{195}Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
• 587.64 *8*	0.30 *3*	^{69}Ge(39.05 h)	1107.01(36), 574.17(13.3), 872.14(11.9)
587.66 *13*	0.55 *6*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
587.7 *2*	2.6 *4*	^{65}Ge(30.9 s)	649.7(33), 62.0(27), 809.1(21.5)
587.7	0.040 *20*	^{208}Tl(3.053 m)	2614.533(99), 583.191(84.5), 510.77(22.6)
587.77 *4*	0.023	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 587.77 *4*		^{243}Am(7370 y)	74.664(68), 43.533(5.93), 117.84(0.57)
• 587.78 *3*	0.0040 *8*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
587.8 *5*	0.072 *14*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
587.8 *5*	0.45 *5*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
587.8 *2*	0.21 *5*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
587.83 *9*	100	^{89}Nb(1.18 h)	507.4(85), 769.69(6.5), 1277.5(1.6)
587.83 *9*	1.39 *17*	^{89}Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
587.83 *2*	0.1108 *8*	^{135}La(19.5 h)	480.51(1.5), 874.51(0.164), 220.94(0.0541)
587.90 *16*	0.051 *10*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
587.95 *6*	0.149 *8*	^{24}Al(2.053 s)	1368.633(96.0), 7069.50(43.0), 2754.028(41.2)
588.0 *10*	0.17 *6*	^{94}Y(18.7 m)	918.74(56), 1138.88(6.0), 550.88(4.9)
588.0 *2*	10.0 *5*	^{101}Ag(11.1 m)	261.0(53), 667.3(9.8), 1173.9(8.94)
588.00 *3*	15.7 *11*	^{143}Gd(112 s)	271.94(84), 798.89(10.7), 668.10(9.7)
• 588.02 *9*	0.136 *10*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
588.16 *8*	0.052 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
588.2 *3*	0.113 *24*	^{77}Kr(74.4 m)	129.64(81), 146.59(37.3), 312.0(3.7)
588.2 *5*	0.04 *2*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
588.2 *2*	†1.6×10^3 *6*	^{158}Er(2.29 h)	71.91(†23300), 386.84(†111000), 248.58(†42000)
588.2 *11*	0.108 *25*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
588.22 *7*	0.90 *5*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
588.28 *17*	0.087 *5*	^{73}Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
588.28 *6*	0.052 *14*	^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
588.3 *2*	0.60 *8*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
588.3 *2*	4.86 *8*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
588.3 *3*	†0.7 *2*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
588.3 *1*	0.099 *25*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
588.3 *6*	0.12 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
588.30 *2*	6.87 *25*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
588.33 *2*	19.2 *10*	^{207}At(1.80 h)	814.41(44.5), 300.654(12.8), 467.12(7.1)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
588.34 *5*	0.050 *5*	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
588.4 *2*	†2.8 *6*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
588.4 *4*	0.07 *4*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
588.4 *2*	0.090 *14*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
588.5 *2*	0.23 *4*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
588.5 *3*	0.0057 *21*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 588.549 *8*	0.603 *12*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
588.565 *50*	0.0033 *3*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
• 588.5845 *7*	4.515 *14*	^{192}Ir(73.831 d)	316.50791(82.81), 468.07152(47.83), 308.45692(30.00)
588.5845 *7*	0.296 *17*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
588.6 *3*	0.39 *7*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
588.6 *2*	†1.48 *11*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
588.605 *9*	1.168 *21*	^{61}Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
588.7 *3*	0.63 *15*	^{160}Yb(4.8 m)	173.74(42.0), 215.78(20.2), 140.35(9.3)
588.7 *10*	0.8 *3*	^{185}Ta(49.4 m)	177.59(25.7), 173.68(22.6), 65.86(3.9)
588.79 *7*	3.79 *24*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
588.8 *1*		^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
588.8	0.124 *18*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
588.8 *10*	0.065 *17*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
588.825 *18*	56 *2*	^{138}I(6.49 s)	875.23(9.2), 2262.19(3.86), 483.700(3.53)
588.825 *18*	900	^{139}I(2.29 s)	483.700(†260), 875.23(†70), 1464.0(†4.9)
588.84 *8*	0.123 *10*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
588.9 *1*	0.064 *5*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
588.9 *1*	0.18	^{113}Ag(68.7 s)	316.3(18), 392.3(11), 298.58(10)
589.0 *3*	2.0	^{67}As(42.5 s)	122.7(19.2), 120.8(9.3), 243.6(7.8)
589.0 *5*	39 *4*	^{80}Sr(106.3 m)	175.4(10.1), 553.4(6.9), 378.8(4.2)
589	>0.08	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
589.0 *20*	0.015 *3*	^{145}Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
589.0 *3*	†16.4 *24*	^{147}Ho(5.8 s)	189.1(†100), 883.9(†100), 486.7(†61)
589.0 *1*	†8.9 *22*	^{177}Tm(85 s)	104.5(†11.1), 517.5(†22.2), 44.5(†10)
589.0 *5*	†1.50 *20*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
589.0 *6*	0.00075 *18*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 589.0 *6*	†0.0037 *12*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 589.00 *10*	0.0024 *4*	^{249}Cf(351 y)	388.16(66), 333.37(14.6), 252.80(2.50)
589.10 *6*	0.277 *16*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
589.1 *2*	0.379 *11*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
589.12 *20*	0.104 *13*	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
589.13 *9*	0.101 *21*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
589.13 *11*	0.069 *11*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
589.135 *23*	0.122 *4*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
589.182 *16*	0.140 *4*	^{194}Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 589.182 *16*	0.246 *18*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
589.2 *8*	>0.08	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
589.21 *28*	0.24 *5*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
• 589.29 *25*	0.00101 *25*	^{95}Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
589.3 *1*	0.346 *19*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
• 589.3 *1*	0.42 *9*	^{146}Pm(5.53 y)	453.88(65), 735.72(22.5), 146.4(0.21)
• 589.35 *4*	0.046 *5*	^{147}Nd(10.98 d)	91.105(28), 531.016(13.1), 319.411(1.95)
589.4 *1*	0.80 *11*	^{139}Nd(29.7 m)	405.12(7), 1074.2(2.5), 669.0(1.52)
589.40 *12*	0.32 *3*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
589.5 *2*	1.90 *22*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
589.5 *5*	†0.04 *2*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
589.6 *5*	0.20 *4*	^{125}Sn(9.52 m)	332.10(97.2), 1404.0(0.70), 1483.9(0.18)
589.61 *3*	0.326 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
589.7 *3*	†9.7 *21*	^{109}Tc(0.87 s)	194.6(†100), 128.7(†51), 96.2(†48)
589.8 *2*	2.3 *5*	^{122}Cs(4.5 m)	331.1(94), 497.1(79), 638.5(63)
589.8 *2*	†0.70 *8*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
589.8 *4*	0.084 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
589.9 *6*	0.0010 *5*	^{141}La(3.92 h)	1354.52(1.64), 1693.3(0.074), 2267.0(0.0413)
589.9 *7*	†0.85 *5*	^{148}Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
589.9 *1*	0.0162 *22*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 589.912 *15*	1.82 *8*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
590.0 *3*	1.8 *9*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
590.0 *8*	0.038 *21*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
590.0 *1*	11.6 *18*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
590.0 *10*	3.3 *11*	^{181}Lu(3.5 m)	652.5(22.0), 205.94(16.1), 574.9(15.4)
590.0	0.15	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
• 590.0 *7*	0.084 *8*	^{252}Es(471.7 d)	52.33(0.55), 64.42(0.274), 418.5(0.220)
590.10 *19*	5.6 *13*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
590.1	0.45	^{149}Ho(21.1 s)	1090.7(74.8), 1073.2(6.37), 1583.6(4.48)
590.2 *1*	0.99 *3*	^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
590.238 *20*	67 *4*	^{93}Sr(7.423 m)	875.73(24.1), 888.13(21.8), 710.312(21.4)
590.24 *2*	0.072 *8*	^{128}Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
• 590.28 *15*	†2.86×10^4 *20*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
• 590.28		^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
590.3 *2*	0.053 *4*	^{137}Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
590.3 *1*	0.11	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
590.3 *10*	0.036 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
590.40 *8*	3.24 *18*	^{101}Sr(118 ms)	128.34(18.0), 1124.82(10.9), 510.73(8.5)
590.4 *3*	†1.8 *4*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
590.4 *3*	0.075 *25*	^{105}Mo(35.6 s)	85.4(25.0), 76.50(19.3), 147.8(14.8)
590.4 *3*	1.57 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
590.41 *26*	0.131 *16*	^{136}Pr(13.1 m)	552.16(76), 539.75(52), 1092.3(18.5)
590.44 *6*	12.06 *19*	^{101}Pd(8.47 h)	296.29(19), 269.67(6.43), 24.46(3.90)
590.44 *5*	0.117 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
• 590.5 *1*	0.025 *8*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
590.6 *2*	11.0 *16*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
• 590.67 *15*	0.0232 *22*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
590.7 *5*	2.02 *22*	^{97}Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
590.7 *1*	0.310 *14*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
• 590.701 *12*	0.70 *4*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
590.8 *2*	0.34 *17*	^{143}Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
590.8 *2*	0.19	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
590.8 *7*	0.253 *22*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
590.83 *5*	5.7 *4*	^{100}Tc(15.8 s)	539.59(7), 1512.1(0.44), 822.6(0.068)
590.83 *5*	1.18 *4*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
590.84 *14*	0.50 *4*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 590.85 *10*	0.032 *5*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 590.85 *15*	0.0363 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
590.85	0.13	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 590.88 *1*	0.069 *3*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 22.510(>0.050)
• 590.88 *1*	0.000096 *8*	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
590.90 *10*	0.35 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
590.9 *4*	0.0047 *16*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
590.91 *3*	16.4 *15*	^{101}Mo(14.61 m)	191.92(19), 1012.47(12.8), 695.60(7.2)
• 590.96 *20*	0.00096 *10*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
591.0 *4*	0.42 *16*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
591.0 *2*	0.5	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
591.0 *3*	0.25	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
591.09 *11*	0.39 *13*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
591.097 *19*	0.157 *15*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
591.1 *6*	0.07 *3*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
591.17 *11*	†24 *4*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
591.20 *3*	9.4 *8*	^{59}Mn(4.6 s)	726.7(42), 472.71(29.0), 570.81(24.8)
591.20 *15*	0.080 *10*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
• 591.2 *4*	0.025 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
591.24 *10*	0.22 *3*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
591.243 *48*	0.94 *9*	^{96}Nb(23.35 h)	778.224(96.45), 568.80(58.0), 459.88(26.62)
• 591.243 *48*	0.11 *6*	^{96}Tc(4.28 d)	778.224(100), 849.929(98), 812.581(82)
591.30 *5*	8.2 *5*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 116.41(7.58)
591.3 *1*	1.10 *8*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
591.3 *2*	23 *3*	^{150}Ho(72 s)	803.4(90), 653.3(15.3), 983(9)
591.32 *8*	0.72 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
591.36 *7*	1.19 *5*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
591.4 *5*	†0.15 *2*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
591.5 *4*	>0.35	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
591.58 *10*	0.45 *8*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
591.6 *1*	†4.6 *6*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
591.6 *3*	0.17 *3*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
591.612 *15*	0.027 *7*	^{183}Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
591.62 *8*	0.139 *20*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
591.67 *16*	0.18 *3*	^{144}Ba(11.5 s)	103.855(23.30), 430.48(18.3), 172.828(15.4)
• 591.677 *7*	0.29 *5*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
591.7 *4*	1.00 *13*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
591.7	0.45	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
591.7	3.8	^{149}Ho(58 s)	1034.6(99.7), 1736.4(28.0), 372.1(25.3)
591.75 *14*	0.169 *13*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
591.75 *15*	3.2 *4*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
• 591.763 *5*	4.990 *25*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
591.763 *5*	0.12 *6*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
591.8 *5*	0.020 *6*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
591.8 *8*	0.04 *3*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
• 591.8	0.044 *5*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
591.8 *5*	†100	^{223}Rn(23.2 m)	635.2(†76), 416.0(†55), 654.0(†44)
591.86 *8*	0.32 *10*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
591.9 *3*	0.29 *10*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
591.9 *3*	0.10 *5*	^{127}In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
591.9 *1*	0.039 *9*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
591.94 *13*	0.36 *5*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
591.96 *20*	0.7 *3*	^{181}Os(105 m)	238.75(44), 826.77(20), 118.03(12.9)
592 *1*		^{128}Pr(3.1 s)	550.6, 873, 799
592.0 *3*	0.23 *7*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
592.0 *1*	61 *3*	^{188}Tl(71 s)	412.7(88), 504.2(23.3), 772.3(11.9)
592.0 *1*	0.10 *4*	^{199}Tl(7.42 h)	455.46(12.4), 208.20597(12.3), 247.26(9.3)
592.0 *3*		^{219}Ra(10 ms)	805.2, 489, 315.82
• 592.074 *4*	1.318 *23*	^{185}Os(93.6 d)	646.116(78.0), 874.813(6.29), 880.523(5.17)
592.10 *9*	0.105 *23*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
592.1 *4*	0.40 *8*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
592.1 *4*	75 *4*	^{179}Yb(8.0 m)	612.3(35.4), 381.4(9.6), 653.7(9.2)
• 592.137 *7*	0.0196 *20*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
592.19 *15*	3.9 *8*	^{122}In(10.8 s)	1140.55(100), 1001.58(98.4), 103.74(81)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
592.2 *1*	0.143 *11*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
592.2	>0.015	^{248}Bk(23.7 h)	550.7(5.0), 41.53
592.22 *5*	0.0325 *17*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
592.3 *4*	2.06 *19*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
592.3 *1*	0.261 *23*	^{211}Rn(14.6 h)	674.1(45), 1362.9(32.5), 678.4(28.9)
592.30 *15*	0.0030 *6*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
592.4 *5*	1.9 *10*	^{120}In(46.2 s)	1171.3(96), 1023.1(55), 863.7(32.5)
• 592.4 *2*	0.041 *9*	^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
592.4 *2*	0.027 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
592.5 *3*	1.24	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
592.577 *38*	0.0165 *12*	^{134}La(6.45 m)	604.699(5.05), 1554.934(0.414), 563.227(0.359)
592.59 *10*	1.20 *13*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
592.6 *2*	†29 *1*	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
• 592.60 *10*	0.034 *7*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
592.6 *1*	3.7 *4*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 314.77(2.49)
592.7 *3*	†7 *2*	^{136}Eu(3.3 s)	254.9(†100), 431.4(†34), 458.0(†20)
592.73 *6*	3.0 *3*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
• 592.83 *3*	0.353 *7*	^{148}Pm(5.370 d)	1465.12(22), 550.284(22.00), 914.85(11.46)
592.9 *8*	1.2 *4*	^{90}Tc(49.2 s)	1054.3(100), 948.1(100), 944.7(36.6)
592.9 *4*	0.128 *10*	^{114}Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
592.9 *7*	0.32 *10*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
592.9 *3*	†0.9 *1*	^{138}Pm(3.24 m)	520.9(†100), 729.0(†37.8), 493.1(†21.6)
593		^{92}Br(0.343 s)	769(†100), 1446(†10), 1035(†6)
• 593.0 *2*	7.5 *4*	^{126}Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
593.0 *2*	0.17 *3*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
593.1 *1*	0.094 *3*	^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
593.1 *2*	30	^{102}In(24 s)	776.6(100), 861.1(96), 397.7(12)
593.1 *3*	0.33 *7*	^{135}Pr(24 m)	296.12(24), 82.64(13.7), 213.45(13.0)
593.1 *2*	2.95 *22*	^{141}Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
593.1 *2*	0.0120 *6*	^{217}At(32.3 ms)	258.5(0.056), 334, 455
593.16 *6*	0.022 *7*	^{95}Tc(20.0 h)	765.794(93.82), 1073.71(3.74), 947.67(1.951)
593.20 *8*	0.0066 *17*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
593.23 *3*	1.29 *7*	^{91}Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
593.25 *14*	0.48 *19*	^{96}Nb(23.35 h)	778.224(96.45), 568.80(58.0), 459.88(26.62)
593.3 *5*	0.025 *6*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
593.3 *2*	†15.8 *7*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
• 593.31 *9*	0.00225 *19*	^{127}Te(109 d)	57.61(0.50), 658.89(0.0122), 650.91(0.00028)
• 593.35 *10*	0.33 *7*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
• 593.37 *5*	0.0426 *15*	^{192}Ir(73.831 d)	316.50791(82.81), 468.07152(47.83), 308.45692(30.00)
593.37 *5*	0.783 *23*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
593.390	11.26 *8*	^{43}K(22.3 h)	372.760(87), 617.490(79.2), 396.861(11.85)
593.390	0.0022 *7*	^{43}Sc(3.891 h)	372.760(23), 1931.3(0.0151), 1558.5(0.0084)
• 593.4 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
593.41 *10*	0.73 *4*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
593.46 *24*	0.35 *3*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
593.5 *2*	0.06 *4*	^{61}Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 970.0(2.57)
593.5 *5*	0.66 *24*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
• 593.5 *2*	0.0101 *20*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
593.5 *5*	0.33 *4*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
593.5 *2*	†12.1 *12*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
593.7 *3*	†29.0 *20*	^{94}Kr(0.20 s)	629.2(†100), 764.5(†71), 219.466(†67.4)
593.7 *3*	†2.0 *8*	^{155}Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
593.7 *5*	0.28 *8*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
593.7 *6*	0.034 *17*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
593.731 *22*	1.12 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
593.8 *2*	0.57 *6*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
593.8 *3*	†1.5 *2*	^{111}Rh(11 s)	275.4(†100.0), 411.8(†9.42), 230.0(†8.9)
593.8 *1*	0.11 *4*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
593.8 *3*	†16	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
593.80 *12*	1.18 *18*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
593.81 *18*	1.10 *14*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
593.990 *20*	27.4 *8*	^{99}Zr(2.1 s)	469.140(55), 546.13(48.6), 461.70(11.0)
594.0 *2*	3.9 *5*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
594.02 *5*	0.081 *5*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
• 594.06 *8*	0.096 *12*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
594.080 *22*	1.44 *4*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
594.1 *2*	0.57 *6*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
594.1 *3*	†21 *4*	^{134}Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
594.1 *3*	†21 *4*	^{134}Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
594.1 *2*	13.6 *18*	^{150}Tm(2.2 s)	1578.9(91), 474.5(86), 207.6(82)
594.2 *3*	0.54 *6*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
594.2 *1*	0.50 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
• 594.2 *1*	0.0017 *9*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
594.24 *17*	0.29 *5*	^{157}Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
594.291 *19*	0.0625 *20*	^{194}Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 594.291 *19*	0.12 *3*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
594.3 *2*	0.59 *7*	^{92}Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
594.3 *3*	1.0 *2*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
594.3 *3*	3.3 *5*	^{128}Sb(10.4 m)	753.82(96.4), 743.22(96), 314.12(89)
594.3 *1*	0.58 *5*	^{143}Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
594.40 *5*	0.028 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 594.409 *15*	0.563 *7*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
594.409 *15*	3.46 *8*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
594.50 *5*	0.346 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
594.5 *1*	0.020 *5*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
• 594.5 *4*	>0.0021	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
594.5 *3*	3.5 *5*	^{166}Ta(34.4 s)	158.5(53), 311.8(28.2), 810.1(9.8)
594.5 *2*	0.29 *4*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
594.5 *3*	0.32 *5*	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
• 594.538 *19*	0.419 *25*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
594.58 *6*	0.107 *11*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
594.6 *5*	0.09 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
• 594.6 *3*	0.031 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
594.6 *8*	†72	^{178}Os(5.0 m)	968.7(†100), 1331.1(†94), 685.0(†65)
594.65 *12*	0.065 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
594.7 *2*	0.36 *18*	^{97}Y(3.75 s)	3287.6(18.1), 3401.3(14.1), 1996.6(7.4)
594.7 *2*	1.4 *7*	^{97}Y(1.17 s)	1103.0(92.6), 161.4(71.8), 1091(56)
594.70 *6*	0.084 *9*	^{137}Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
594.7 *2*	0.41 *5*	^{141}Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
594.74 *15*	2.33 *20*	^{121}Cd(13.5 s)	324.976(49.5), 1040.26(16.8), 349.937(12.9)
594.77 *7*	0.21 *10*	^{183}Hf(1.067 h)	783.754(66), 73.174(38), 459.069(27)
594.8 *1*	0.006 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
• 594.80 *3*	0.265 *17*	^{147}Nd(10.98 d)	91.105(28), 531.016(13.1), 319.411(1.95)
594.86 *14*	0.124 *18*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 594.89 *4*	0.193 *7*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
594.9 *2*	2.62 *12*	^{69}Cu(2.85 m)	1007.5(23.4), 834.4(13.1), 531.2(6.0)
594.9 *2*	0.0124 *22*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 594.9		^{185}Os(93.6 d)	646.116(78.0), 874.813(6.29), 880.523(5.17)
594.97 *6*	0.109 *17*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
595 *3*		^{46}K(105 s)	1346.0(100), 1228.7(6.4), 1675(3.5)
595.0 *2*	†1.6 *3*	^{131}Ce(5.0 m)	230.43(†100), 436.85(†7.3), 462.9(†6.9)
595.0 *2*	†4.7 *5*	^{169}Ta(4.9 m)	511.0(†20.6), 28.80(†18.3), 192.4(†8)
595.013 *11*	0.057 *7*	^{13}B(17.36 ms)	3683.921(7.6), 3089.049(<0.7), 3853.170(<0.5)
595.03 *5*	0.37 *6*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
595.06 *7*	39 *2*	^{80}Y(35 s)	385.86(100), 1185.20(20), 756.53(13)
595.1 *3*	†1.0 *1*	^{104}Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
595.1 *5*	0.47	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
595.2 *5*	16.8 *17*	^{70}As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
595.2 *5*	†30.5 *18*	^{71}Cu(19.5 s)	489.7(†100), 586.5(†30.2), 674.8(†25.4)
595.2	0.09 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
595.2	0.22 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
595.2 *2*	0.16	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
595.24 *15*	0.301 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
595.29 *16*	†88 *8*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
595.3 *3*	<0.5	^{73}Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
595.3 *1*	0.050 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
595.35 *5*	0.238 *17*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
595.362 *20*	11.2 *6*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
• 595.380 *20*	0.0017 *2*	^{115}Cd(53.46 h)	336.240(45.9), 527.900(27.45), 492.3(8.03)
595.4 *2*	>0.00027	^{49}Cr(42.3 m)	90.639(53.20), 152.928(30.32), 62.289(16.39)
595.40 *20*	†17.9 *20*	^{106}Mo(8.4 s)	465.70(†100), 54.00(†54), 618.60(†25)
595.4 *1*	4.6 *2*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
595.4 *5*	0.126 *12*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
595.4 *3*	†23.9 *14*	^{194}Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
595.4 *2*	0.093 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
595.43 *13*	0.28 *8*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
595.43 *10*	0.53 *3*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
595.46 *2*	0.20	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
595.5 *4*	3.35 *6*	^{103}In(65 s)	187.97(55), 720.32(13.9), 739.95(10.1)
595.5 *3*	1.0 *2*	^{130}Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
595.5 *1*	0.102 *8*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
• 595.6 *1*	0.082 *8*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 595.6 *4*	0.099 *21*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
595.6 *7*	0.37 *5*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
595.7 *5*	3.4 *14*	^{118}Pd(1.9 s)	125.4(34), 125.4(34), 224.2(20.1)
595.7 *1*	0.84 *8*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
• 595.70 *15*	0.0314 *9*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
595.8 *3*	0.152 *10*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
595.8 *1*	0.109 *11*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
• 595.8 *3*	0.015 *3*	^{241}Cm(32.8 d)	471.805(71), 430.634(4.06), 132.413(3.86)
• 595.83 *4*	3.9×10^{-8} *20*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
595.84 *15*	0.13 *2*	^{126}In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
595.84 *15*	0.61 *10*	^{126}In(1.64 s)	1141.11(100), 908.58(99), 111.79(88)
595.847 *6*	91	^{74}Ga(8.12 m)	2353.46(44.5), 608.353(14.3), 867.898(8.7)
• 595.847 *6*	59 *3*	^{74}As(17.77 d)	608.353(0.552), 1204.208(0.285), 887.19(0.0255)
595.87 *13*	0.22 *3*	^{93}Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
595.87 *7*	0.299 *19*	^{146}La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
595.9 *1*	0.45 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
595.9 *3*	0.22 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
595.90 *10*	0.34 *3*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
595.9 *2*	†1.09 *12*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
595.94 *9*	0.397 *15*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
• 595.95 *13*	0.023 *7*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
595.99 *6*	0.270 *18*	^{89}Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
596.0 *3*	0.023 *6*	^{89}Rb(15.15 m)	1031.94(58), 1248.19(42.6), 2196.02(13.3)
596	†1.8	^{107}Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
596.0	4.3 *5*	^{147}Cs(0.225 s)	85.2(7.3), 245.8(4.5), 109.7(4.5)
596.0 *4*	0.32 *7*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
596 *1*	†0.23 *14*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
596 *1*	>0.0017	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
596.0 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
596.0 *8*	0.011	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
596 *1*	0.00099 *15*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 596 *1*	†0.0007 *3*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
596.02 *9*	0.063 *7*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
596.1 *3*	1.7 *4*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 484.501(11.3)
596.14 *7*	27.9 *19*	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 620.18(57)
596.15 *13*	1.31 *15*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
596.19 *12*	0.147 *17*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
596.20 *10*	1.5 *5*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
596.2 *4*	0.026 *10*	^{138}Cs(33.41 m)	1435.795(76.3), 462.796(30.7), 1009.78(29.8)
596.2	†3.2 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
596.2 *1*	0.18 *18*	^{209}At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
596.2 *1*	0.47 *18*	^{209}At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)
596.22 *12*	0.042 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
596.3 *2*	8.0 *7*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 782.0(6.9)
596.3 *2*	0.50 *5*	^{141}Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
596.4 *1*	0.92 *15*	^{96}Sr(1.07 s)	122.297(76.50), 809.401(71.9), 931.7(11.8)
596.4 *4*	0.25 *4*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
596.4 *3*	0.4	^{207}Hg(2.9 m)	351.059(77), 997.1(69), 1637.1(30)
• 596.41 *15*	0.026 *6*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
596.48 *20*	0.21 *5*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
596.5 *10*	0.09 *3*	^{122}In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
• 596.5 *3*	0.0016 *5*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
• 596.53 *4*	0.053 *10*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 596.53 *4*	0.021 *12*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
596.56 *13*	26	^{62}Zn(9.186 h)	40.84(25.5), 548.35(15.3), 507.60(14.8)
596.6 *7*	0.165 *22*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
596.64 *8*	0.47 *3*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
596.7 *1*	10.1 *14*	^{123}Cs(5.94 m)	97.3(23), 83.3(4.1), 307.0(3.9)
• 596.72 *15*	0.0121 *13*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
596.73 *10*	0.36 *9*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
• 596.75 *15*	0.064 *14*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
596.76 *21*	0.071 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
596.77 *10*	1.57 *6*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
596.78 *8*	†5.30 *10*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
596.8 *2*	†2.4 *8*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
596.8 *2*	1.00 *11*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
596.85 *12*	1.41 *24*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
596.9 *1*	†3.0 *3*	^{123}La(17 s)	92.5(†100), 937.3(†43), 153.6(†43)
596.9 *1*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
596.9 *1*	0.196 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 596.941 *20*	0.040 *7*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
• 597.0 *2*	0.066 *25*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
597.0 *3*	0.17	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
597.0 *4*		^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
597.0 *10*	0.80 *17*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
597.0 *3*	0.146 *17*	^{238}Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
597.10 *15*	0.030 *7*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
597.1 *1*	0.032 *11*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
597.1 *1*	0.057 *5*	^{141}Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
597.12 *20*	0.093 *19*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
597.14 *4*	0.25 *3*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
597.16 *22*	0.059 *13*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
597.19 *30*	0.049 *10*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
597.2 *3*	0.15 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
597.2 *4*	0.51 *9*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
597.2 *4*	0.59 *12*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
597.2 *15*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
597.2 *1*	0.21	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
597.25 *21*	0.445 *23*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
597.27 *6*	0.0078 *4*	^{107}Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
597.3 *5*	0.11 *5*	^{109}Rh(80 s)	326.868(54), 426.135(7.7), 178.034(7.6)
597.3 *2*	†8.5 *9*	^{153}Yb(4.2 s)	547.4(†100), 674.1(†61), 369.6(†32)
597.34 *20*	0.13	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
597.36 *14*	0.38 *3*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
597.4 *5*	1.33 *14*	^{85}Se(31.7 s)	345.2(<0.23), 3396.6(7.4), 1427.2(7.0)
597.4 *1*	4.4 *4*	^{151}Er(0.58 s)	789.4(5.1), 297.2(3.7), 414.1(2.7)
597.4 *6*	0.14 *11*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
597.40 *7*	11.7 *3*	^{240}Np(7.22 m)	554.60(20.9), 1496.9(1.33), 817.89(1.28)
• 597.40 *7*	0.005	^{240}Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
• 597.40 *7*	4.9×10^{-5}	^{244}Cm(18.10 y)	42.824(.0044100), 98.860(.0001470), 152.63(<4.9×10^{-7})
597.48 *2*	0.28 *6*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
• 597.48 *8*	†7.4×10^{4} *3*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^{9}), 33.195(†6000×10^{8})
597.5 *6*	0.080 *14*	^{157}Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
597.5 *3*	†2.9×10^{2} *14*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
597.58 *9*	0.324 *24*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
597.6 *3*	0.014 *14*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
597.6 *2*	0.24 *3*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
597.6 *3*	†4.9 *9*	^{160}Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
597.6 *3*	0.26 *6*	^{160}Tm(74.5 s)	264.1(9), 125.8(6.5), 375.8(2.4)
597.6 *1*	†24 *3*	^{227}Rn(22.5 s)	162.14(†100), 739.2(†65), 686.2(†62)
597.67 *7*	9.4 *6*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 2382.6(5.1)
• 597.7 *1*	0.079 *9*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
• 597.7 *1*	0.009 *8*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
597.7 *4*	0.0266 *21*	^{233}Np(36.2 m)	312.17(0.7), 298.89(0.44), 546.9(0.280)
• 597.73 *2*	0.0056 *3*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
597.8 *5*	0.33	^{45}Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
597.8 *3*	2.00 *20*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
597.8 *2*	2.82 *18*	^{101}Zr(2.1 s)	119.3(10.8), 205.6(6.0), 912.2(3.48)
597.8 *2*	0.36 *4*	^{136}I(83.4 s)	1313.02(67), 1321.08(24.8), 2289.6(10.4)
597.8 *8*	0.079 *8*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
597.8 *3*	0.25	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
597.8 *3*	4.11 *19*	^{186}Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
597.9 *3*	0.52 *7*	^{119}Cd(2.69 m)	292.9(36.8), 343.0(16.9), 1609.7(10.9)
597.9 *2*	1.22 *11*	^{141}Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
597.9 *1*	0.39 *3*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
597.9 *2*	†52 *3*	^{202}Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 597.98 *3*	1.67×10^{-6} *5*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 598.0 *10*	0.009 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
598.06 *5*	0.028 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
598.1 *3*	0.56 *4*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
598.1 *4*	0.21 *5*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
• 598.1 *3*	0.0007 *3*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
598.12 *3*	0.253 *13*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
598.13 *6*	0.21	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
598.14 *20*	0.29 *6*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
• 598.15 *20*	0.062 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 598.15 *15*	0.0323 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
598.17 *18*	0.0133 *25*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
598.2 *2*	0.60 *6*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
598.2 *2*	1.1 *3*	^{129}Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
598.2 *1*	0.077 *7*	^{210}Rn(2.4 h)	458.25(1.7), 648.70(0.843), 570.95(0.840)
• 598.22 *2*	0.0062 *7*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
598.22 *2*	1.41 *14*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
598.22 *2*	0.73 *10*	^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
598.246 *9*	0.33 *4*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
598.3 *5*	0.24 *4*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
598.3 *2*	8.0 *6*	^{190}Pb(1.2 m)	942.20(34), 151.19(8.92), 142.2(7)
598.4 *2*	0.27 *7*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 598.4 *3*	>0.0016	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
• 598.42 *15*	0.00022 *3*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
598.43 *18*	0.071 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
598.44 *5*	0.75 *9*	^{98}Rh(8.7 m)	652.43(94), 745.36(5.3), 1817.0(4.7)
598.44 *5*	4.6 *5*	^{98}Rh(3.5 m)	652.43(96), 745.36(78), 1144.52(8.5)
598.46 *5*	0.066 *11*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
598.5 *7*	†6 *3*	^{112}Te(2.0 m)	372.70(†100), 296.20(†86), 418.9(†57)
598.5 *2*	†11.8 *12*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
598.54 *5*	0.117 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
• 598.6 *2*	0.014 *3*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
598.6	0.40	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
598.6 *2*	0.025 *4*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
598.60 *8*	0.39 *4*	^{182}Re(12.7 h)	67.75001(38.2), 1121.3007(32), 1221.4066(24.8)
598.7 *3*	0.152 *11*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
• 598.72 *2*	0.093 *4*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
598.74 *5*	1.47 *6*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 475.28(1.02)
598.764 *19*	2.10 *4*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
598.8 *3*	5.2 *3*	^{96}Pd(122 s)	124.70(65), 762.3(50.0), 499.7(17.9)
598.8 *7*	0.12 *5*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
598.8 *2*	2.1	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
598.8 *3*	0.12 *3*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
598.9 *2*	0.41 *16*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
• 598.94 *4*	0.0193 *10*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
• 598.96 *4*	0.006 *4*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
• 598.974 *6*	0.0023 *3*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
599.0 *5*	†13.0 *11*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
599 *1*		^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
599.0 *4*	0.24 *8*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
599.032 *11*	0.149 *19*	^{180}Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
• 599.1 *7*	0.008 *3*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
599.1 *4*	0.047	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
599.11 *14*	0.140 *14*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
599.14 *22*	0.023 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
599.2 *4*	0.20 *7*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
599.2 *3*	0.26 *3*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
599.2 *2*	0.82 *10*	^{167}Dy(6.20 m)	569.7(48), 259.33(27.9), 310.26(25.0)
599.2 *3*	0.32 *5*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
599.22 *15*	0.10 *4*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
599.3 *5*	>0.22	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
599.3 *2*		^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
• 599.3 *2*	0.012 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
599.30 *10*	0.53 *8*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
599.3 *1*	1.90 *13*	^{230}Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
599.35 *25*	0.54 *5*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 599.35 *10*	0.0039 *17*	^{192}Ir(73.831 d)	316.50791(82.81), 468.07152(47.83), 308.45692(30.00)
599.4	0.267 *23*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
599.4 *3*	0.37 *4*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
599.4 *4*	0.58 *5*	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
599.42 *2*	1.1	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
• 599.5 *3*	0.013 *8*	^{82}Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
599.5 *3*	0.27 *8*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
599.5 *2*	†9.1 *12*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
599.52 *20*	0.088 *12*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
• 599.52 *3*	2.085 *11*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
599.57 *30*	0.049 *10*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
• 599.6 *5*	0.0021 *10*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
599.60 *10*	13.9 *3*	^{102}Zr(2.9 s)	535.30(10.6), 64.50(8.9), 156.60(2.92)
599.6 *1*	10.7 *18*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
599.6 *7*		^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
599.6 *10*	0.06 *3*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
• 599.6 *2*	2.0×10^{-7} *2*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 599.62 *4*	0.280 *22*	^{189}Re(24.3 h)	216.663(5.50), 219.395(4.54), 245.09(3.5)
599.66 *5*	0.36 *3*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
599.66 *4*	1.78 *6*	^{195}Hg(9.9 h)	779.80(7), 61.46(6.2), 585.13(1.99)
599.69 *16*	0.0026 *9*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
599.7 *3*	0.17 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
599.7 *3*	0.41 *20*	^{200}Po(11.5 m)	671.0(34.0), 617.7(19.7), 434.4(9.3)
599.7 *1*	0.24 *3*	^{236}Th(37.5 m)	110.8(4.2), 646.6(0.72), 196.0(0.69)
599.8	0.44	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
599.8 *1*	1.841 *20*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
599.80 *10*	0.186 *19*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
599.8 *4*	0.23 *4*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
599.8 *3*	†7	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
• 599.81 *3*	12.49 *12*	^{148}Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 599.81 *3*	0.344 *7*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
599.82 *9*	2.62 *15*	^{205}Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
599.85 *6*	0.028 *8*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
• 599.86 *4*	0.138 *19*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 599.862 *19*		^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
599.88 *10*	25.9 *12*	^{161}Yb(4.2 m)	78.20(34), 631.45(13.9), 569.73(5.7)
599.9 *4*	0.27 *4*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
600.0 *2*	†20 *4*	^{84}Zr(25.9 m)	112.5(†100), 44.9(†48), 372.9(†41)
600.0 *2*	0.9 *4*	^{98}Y(0.548 s)	1223.0(36.0), 2941.3(16.7), 1590.9(14.7)
600.0 *4*	4.1 *5*	^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
600.0 *10*	0.063 *18*	^{99}Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
600 *1*	3.1	^{125}Cs(45 m)	526(24), 111.8(9), 412(5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
600.0 *6*	0.13 *3*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
600.0 *2*	†3.8 *4*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
600.0 *5*	0.008 *3*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
600.01 *15*	†21.9 *24*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
600.1 *3*	0.80 *20*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
600.1 *1*	0.13 *3*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
600.1 *1*	14.0 *7*	^{132}I(1.387 h)	173.7(8.8), 614.0(2.5), 610.0(1.47)
• 600.16 *5*	†0.39 *1*	^{52}Mn(5.591 d)	1434.068(†100.0), 935.538(†94.9), 744.233(†90.6)
600.2 *3*	4.4 *4*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
600.2 *3*	0.54 *4*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
600.2 *4*	†5 *3*	^{113}Ru(0.80 s)	263.2(†100), 211.7(†31.0), 337.5(†27.9)
600.2	0.64 *23*	^{148}Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
600.2 *4*	0.0041 *12*	^{167}Yb(17.5 m)	113.34(55.3), 106.18(22.5), 176.25(21)
600.2 *6*	†238 *48*	^{177}Re(14 m)	196.85(†1200), 79.65(†1010), 84.3(†890)
600.3	3.6	^{144}Tb(4.25 s)	743.0(12), 1001.6(7), 959.36(4.7)
600.3 *3*	0.25 *4*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
600.31 *15*	1.7 *3*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
600.33 *29*	0.023 *3*	^{73}Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
600.4 *5*	†267 *67*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
600.4 *5*	0.055 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
600.44 *15*	0.086 *10*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
600.5 *2*	10.6 *4*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 520.0(6.3)
600.5 *1*	0.55 *5*	^{100}Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
600.5 *1*	65.0 *16*	^{100}Nb(2.99 s)	535.60(97.0), 1280.6(23.8), 967.1(19.3)
600.5 *4*	10.5 *6*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
• 600.5 *1*	62 *3*	^{194}Ir(171 d)	482.833(97), 328.455(93), 687.7(59)
600.5 *7*	1.7 *5*	^{194}Tl(32.8 m)	636.5(99), 428.0(99), 748.9(76)
600.57 *6*	18.4 *9*	^{240}Np(61.9 m)	566.34(25.3), 973.9(23.8), 895.8(13.6)
• 600.57 *6*	0.014 *6*	^{240}Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
600.6 *6*	>0.19	^{97}Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
• 600.600 *4*	17.86 *5*	^{125}Sb(2.7582 y)	427.875(30), 635.954(11.31), 463.365(10.493)
600.6 *2*	1.5 *3*	^{129}Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
600.6 *10*	†42	^{178}Os(5.0 m)	968.7(†100), 1331.1(†94), 594.6(†72)
• 600.607 *8*	0.001131 *21*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
600.64 *10*	0.65 *9*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
600.65 *6*	2.14 *25*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 600.66 *5*	0.00049	^{226}Ra(1600 y)	186.10(3.50), 262.27(0.0049), 414.60(0.00030)
600.7 *4*	†8.6 *13*	^{87}Nb(2.6 m)	200.95(†100), 470.63(†73), 1066.8(†37)
600.7 *2*	0.042 *12*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
600.7 *3*	0.088 *13*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
600.7 *3*	0.00060 *15*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
600.7 *2*	0.082 *25*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
600.71 *2*	10.2 *14*	^{118}I(13.7 m)	605.71(86.0), 545.12(10.9), 1338.7(8.4)
600.71 *2*	92 *6*	^{118}I(8.5 m)	605.71(99), 614.42(65), 1257.7(24.2)
600.8 *10*	0.014	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
600.8 *3*	0.028 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
600.8 *1*	0.202 *11*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
600.9 *5*	0.27 *5*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
600.91 *21*	0.020 *5*	^{85}Br(2.90 m)	802.41(2.56), 924.63(1.63), 919.06(0.65)
600.94 *3*	5.54 *11*	^{72}Ga(14.10 h)	834.01(96), 2201.69(25.9), 629.95(24.8)
• 600.94 *3*	0.315 *8*	^{72}As(26.0 h)	834.01(80), 629.95(7.92), 1463.95(1.107)
601 *1*	0.013 *5*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
601.0 *3*	0.8	^{111}Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
601.0 *2*	†0.60 *10*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
601.0 *30*	0.020 *6*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
601.05 *7*	4.80	^{137}I(24.5 s)	1218.00(12.8), 1302.64(4.42), 1220.07(3.5)
601.05 *7*	1.1	^{138}I(6.49 s)	385.15(0.06)
• 601.09 *20*	0.028 *7*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
• 601.1 *1*	0.0031 *9*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
• 601.1 *1*	0.0007	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
601.11 *2*	†10.8 *22*	^{120}I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
601.11 *2*	87 *9*	^{120}I(53 m)	560.44(100), 614.62(67), 976(35)
601.16 *8*	†4.8 *3*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
601.17 *7*	2.99 *17*	^{106}Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 601.17 *7*	1.61 *9*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
601.2 *2*	†10.9 *9*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
601.2 *2*	†8.2 *6*	^{137}Te(2.49 s)	243.3(†100), 554.0(†34), 469.1(†21)
601.2 *4*	0.56 *9*	^{139}Nd(5.50 h)	113.94(40), 737.96(35), 982.2(26.4)
601.20 *20*	0.115 *23*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
601.2 *2*	†10 *2*	^{227}Rn(22.5 s)	162.14(†100), 739.2(†65), 686.2(†62)
• 601.201 *15*	0.0588 *14*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
601.23 *6*	0.039 *6*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
601.3 *2*	1.01 *7*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
601.3		^{154}Tm(3.30 s)	542.0, 625, 560.0
601.3	0.14	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
601.40 *20*		^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
601.4 *4*	2.98 *14*	^{146}Pr(24.15 m)	453.88(48.0), 1523.7(15.6), 735.72(7.5)
• 601.450 *4*	5.88 *19*	^{147}Eu(24.1 d)	197.299(27), 121.220(22.9), 677.516(9.8)
601.48 *5*	0.074 *4*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
601.48 *18*	0.50 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
601.5 *4*	0.32 *16*	^{130}La(8.7 m)	357.4(81.0), 550.7(25.9), 908.0(17.0)
601.5 *2*	0.127 *17*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
601.5 *2*	†24 *1*	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
601.5 *1*	0.443 *15*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
601.5 *3*	2.1	^{199}Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
601.551 *8*	0.015 *6*	^{200}Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
601.6 *3*	0.16 *5*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
601.6 *1*	0.050 *13*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
• 601.6 *2*	†4.1×10^6	^{208}Po(2.898 y)	291.7(†9×10^{06}), 570.4(†5×10^{06}), 861.9(†2.8×10^6)
601.7 *2*	0.279 *17*	^{94}Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
601.73 *13*	0.129 *18*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
601.75 *3*	0.342 *23*	^{132}La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
601.75 *3*	1.3 *5*	^{132}La(24.3 m)	464.55(22), 663.07(11.6), 285.6(7)
601.79 *2*		^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
601.8 *3*	0.009	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
601.84 *7*	1.2 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
601.88 *6*	7.62 *11*	^{148}La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
601.9 *2*	†2.5 *9*	^{172}Ir(2.0 s)	227.8(†100.0), 378.4(†62.0), 448.4(†40.5)
601.95 *8*	0.60 *5*	^{202}Pb(3.53 h)	490.47(9.1), 459.72(8.6), 389.94(6.2)
602.0 *5*	0.22	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
602.039 *3*	4.187 *21*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
• 602.039 *3*	0.40 *15*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
602.05 *20*	1.33 *18*	^{130}In(0.55 s)	1221.24(89), 774.37(46), 89.23(20.2)
602.1 *5*	0.092 *20*	^{115}Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
602.1 *2*	0.017 *6*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
602.1 *4*	0.63 *5*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
602.14 *7*	10	^{82}Y(9.5 s)	573.66(25), 737.35(2.3), 1175.58(1.0)
602.2 *1*	0.35 *4*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
602.2 *2*	0.88 *7*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
602.2 *3*	0.11	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
602.345 *27*	71.1 *21*	^{140}Cs(63.7 s)	908.25(11.6), 1200.25(6.39), 2330.50(4.99)
602.37 *14*	1.38 *7*	^{97}Zr(16.91 h)	743.36(93), 507.64(5.03), 1147.97(2.61)
602.4	†3.5	^{138}Eu(12.1 s)	346.6(†100), 544.2(†55), 685.4(†41)
602.4 *2*	0.043 *21*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
602.4 *5*	†1.00 *15*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
• 602.5 *4*	0.0009 *5*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
602.5 *1*	8.8 *9*	^{84}Y(40 m)	793.3(99), 974.6(75), 1040.2(56)
602.5 *1*	0.0080 *5*	^{109}Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
602.5 *3*	0.23 *3*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
602.5	0.06	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
602.5 *2*	0.119 *20*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
602.5 *8*	>0.06	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
602.54 *13*	0.0510 *23*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
602.54 *6*	0.232 *12*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
602.57 *10*	1.73 *13*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
602.58 *18*	†2.1 *4*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
602.6 *4*	0.18 *3*	^{93}Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
602.6 *4*	3.3 *17*	^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
602.6 *1*	0.310 *24*	^{137}Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
602.6 *4*	0.10 *5*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
602.6 *3*	0.154 *14*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
602.6 *1*	0.54 *3*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 602.62 *3*	0.029 *9*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 602.62 *3*	0.30	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
602.67 *24*	0.25 *4*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
602.68 *4*	0.0047	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 602.688 *9*	0.0338 *14*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
602.688 *9*	0.08 *4*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
602.688 *9*	0.25 *4*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
602.7 *3*	0.0664 *16*	^{65}Ga(15.2 m)	115.09(54), 61.20(11.4), 153.0(8.9)
602.7	†1.05 *10*	^{135}Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
602.7 *2*	†38.4 *6*	^{136}Pm(107 s)	373.8(†100), 857.2(†23.4), 862.5(†19.0)
602.7 *2*	†17	^{136}Pm(47 s)	373.8(†100), 862.5(†28), 488.7(†22)
602.7 *2*	12.3 *3*	^{136}Pm(107 s)	373.8(15.0), 857.2(12.72), 814.7(30.9)
602.73 *3*	1.208 *20*	^{123}Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
• 602.730 *3*	97.8 *3*	^{124}Sb(60.20 d)	1690.980(47.3), 722.786(10.76), 645.855(7.38)
602.730 *3*	25	^{124}Sb(93 s)	645.855(25), 498.3(25), 1101.0(0.50)
• 602.730 *3*	60	^{124}I(4.18 d)	1690.980(10.41), 722.786(9.98), 1509.49(2.989)
602.8 *2*	0.22 *4*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
602.8 *3*	†13	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
602.8 *2*	†4.1	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
602.837 *7*	0.13 *4*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
602.85 *3*	2.83 *13*	^{91}Rb(58.4 s)	93.628(33.7), 2564.19(12.5), 3599.67(10.4)
602.87 *10*	†15.0 *15*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
602.9 *1*	0.71 *20*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
602.9 *3*		^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
602.9 *4*	0.30 *8*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
602.91 *7*	0.46 *4*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
602.95 *9*	0.44 *4*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
602.95 *10*	0.024 *4*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
602.97 *22*	†5.0 *7*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
602.98 *24*	0.102 *13*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
603.0 *3*	0.063 *13*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
603.0 *4*	0.0112 *24*	^{113}Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
603.0 *3*	1.7 *3*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
• 603.0 *6*	0.011 *3*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
• 603.060 *10*	0.0039 *9*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
603.060 *10*	0.078 *20*	^{110}In(69.1 m)	657.7622(98), 2129.53(2.13), 2211.49(1.76)
603.08 *12*	0.0268 *18*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
603.1 *5*	0.023 *11*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
603.1 *4*	0.145 *15*	^{139}Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
603.15 *3*	5.2 *9*	^{182}Hf(61.5 m)	942.80(18.8), 799.64(9.4), 114.3152(6.2)
603.2 *1*	0.670 *23*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
603.2 *1*	0.17 *4*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
603.21 *13*	0.042 *10*	^{88}Kr(2.84 h)	2392.11(34.6), 196.301(25.98), 2195.842(13.18)
• 603.25 *15*	0.0008 *5*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
603.26 *6*	4.42 *13*	^{115}Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
603.3 *4*	0.015 *5*	^{51}Mn(46.2 m)	749.07(0.26), 1148.01(0.078), 1164.40(0.076)
603.3 *5*	0.07 *3*	^{61}Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
603.30 *8*	0.53 *3*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
603.3	†2.8	^{144}Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
603.3 *3*	0.084 *17*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
603.3 *3*	0.40 *7*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 603.3 *1*	0.0022 *11*	^{225}Ac(10.0 d)	99.91(1.01), 150.04(0.80), 99.63(0.62)
603.35 *11*	0.0064 *9*	^{249}Cm(64.15 m)	634.31(1.5), 560.45(0.84), 368.76(0.35)
• 603.39 *15*	>0.0033	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
• 603.5 *5*	4.43 *11*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
603.5 *3*	0.61 *3*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
603.5 *3*	0.000204 *16*	^{130}I(9.0 m)	536.09(16), 586.05(1.07), 1614.10(0.447)
603.5 *1*	37.0 *4*	^{135}Te(19.0 s)	266.8(10.36), 870.3(7.73), 1133.3(1.74)
603.54 *25*	0.19	^{154}Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
603.57 *5*	0.0163 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
603.59 *18*	1.7 *6*	^{102}Ag(12.9 m)	556.52(91), 719.40(58), 1744.99(17.3)
603.6 *1*	0.23 *9*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
603.70 *6*	1.09 *6*	^{79}Ge(19.1 s)	109.58(21), 1505.85(9.2), 100.48(2.70)
603.7 *4*	0.59 *12*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
603.76 *8*	0.052 *4*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
• 603.798 *17*	0.108 *8*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
603.8 *1*	0.197 *8*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
603.8 *5*	0.36 *7*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
603.806 *9*	0.011 *4*	^{155}Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
603.9	0.36	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
603.9 *6*	†1.8	^{177}Os(2.8 m)	84.7(†100), 125.4(†63), 195.8(†61)
604.00 *5*	1.34 *7*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
• 604.0 *6*	0.0081 *22*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
604.0 *4*	0.20 *5*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
604.04 *2*	0.304 *8*	^{95}Tc(20.0 h)	765.794(93.82), 1073.71(3.74), 947.67(1.951)
604.07 *14*	1.20 *6*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
604.1 *2*	0.39 *5*	^{104}Mo(60 s)	68.8(55), 69.7(17.8), 36.3(14)
604.11 *12*	9.2 *5*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 668.23(7.8)
604.2 *2*	0.22	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
604.21 *10*	2.83 *18*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
604.22 *6*	0.049 *3*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
604.3 *2*	0.55 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
604.3 *2*	0.418 *20*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
604.3 *4*	0.79 *16*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
604.31 *6*	0.053 *9*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
604.4 *2*	0.0030 *12*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
• 604.4 *1*	0.022 *3*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
• 604.41464 *23*	8.23 *6*	^{192}Ir(73.831 d)	316.50791(82.81), 468.07152(47.83), 308.45692(30.00)
604.41464 *23*	1.009 *23*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
604.5 *10*	>0.09	^{61}Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 970.0(2.57)
604.5 *3*	0.22 *7*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
604.553 *15*	0.198 *4*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
604.56 *3*	2.80 *13*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
604.57 *3*	0.420 *24*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
604.6 *4*	1.1 *5*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
604.6 *1*	0.026	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
604.6 *2*	†1.70 *21*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 604.6		^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
604.6 *3*	0.052 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 604.65 *19*	0.031 *14*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
• 604.699 *15*	97.56 *32*	^{134}Cs(2.062 y)	795.845(85.44), 569.315(15.43), 801.932(8.73)
604.699 *15*	5.05 *14*	^{134}La(6.45 m)	1554.934(0.414), 563.227(0.359), 1732.129(0.234)
604.7 *2*	0.49 *6*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
604.7 *2*	†2.1	^{96}Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)
604.7 *3*	0.34 *5*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
604.7 *3*	0.28 *6*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
604.73 *15*	0.21 *3*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
604.761 *16*	3.28 *11*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
604.80 *20*	0.40 *5*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
604.8 *3*	0.32 *4*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
604.9 *3*	0.37 *6*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
604.9 *1*	5.0 *11*	^{129}Sn(6.9 m)	1161.31(56.0), 1128.44(50), 760.8(16.8)
604.9 *3*	0.73 *22*	^{180}Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
605.0 *5*	0.0041 *16*	^{152}Eu(9.274 h)	841.586(14.6), 963.37(12.01), 121.7824(7.21)
605.0 *5*	14 *1*	^{164}Ta(14.2 s)	211.05(74), 376.8(22), 862.0(10.0)
605.0 *10*	0.13 *3*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
605.1 *3*	1.75 *25*	^{84}Br(31.80 m)	881.610(42), 1897.761(14.7), 3927.5(6.8)
605.10 *20*	0.291 *17*	^{112}Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
605.1 *2*	†3.6 *3*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
605.11 *4*	1.27 *6*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
• 605.13 *9*	0.081 *4*	^{238}Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
605.13 *9*	7.6 *5*	^{238}Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 605.13 *9*	0.00011 *3*	^{242}Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
605.2 *6*	0.71 *18*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
605.2 *3*		^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
605.2 *2*	†23 *3*	^{229}Ac(62.7 m)	164.522(†100), 569.1(†91), 261.92(†39)
605.21 *12*	1.50 *4*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
605.24 *5*	16.3 *9*	^{190}Re(3.1 m)	186.718(48.4), 557.972(28.2), 223.811(26.0)
605.24 *5*	14.9 *10*	^{190}Re(3.2 h)	186.718(27.8), 557.972(14.3), 569.310(13.7)
• 605.24 *5*	39.9 *14*	^{190}Ir(11.78 d)	186.718(52.4), 518.55(34.0), 557.972(30.1)
605.25 *10*	0.17	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
605.28 *6*	1.02 *6*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
605.30 *7*	1.55 *6*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
605.3 *4*	0.24 *5*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
605.30 *15*	0.28 *6*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
605.4 *3*	>0.029	^{110}In(69.1 m)	657.7622(98), 2129.53(2.13), 2211.49(1.76)
• 605.4 *2*	1.4	^{126}Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
605.40 *5*	0.56 *4*	^{200}Pb(21.5 h)	147.63(37.7), 257.17(4.46), 235.63(4.30)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
605.4 *5*	0.171 *17*	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
• 605.45 *25*	0.025 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
605.5 *2*	†16.3 *6*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 405.49(†9.1)
605.51 *10*	1.06 *6*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
605.51 *10*	†83	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
605.54 *18*	0.50 *8*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
605.54 *8*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
605.55 *2*	0.117 *7*	^{131}Te(25.0 m)	149.716(69), 452.323(18.18), 1146.96(4.95)
605.56 *8*	†22.0 *14*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
605.6 *2*	0.092 *16*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
605.6 *3*	5.2 *5*	^{98}Rb(96 ms)	144.224(73), 289.4(68), 3010.5(23.4)
• 605.6 *2*	0.017 *3*	^{171}Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
605.7 *4*	0.50 *6*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
605.7 *2*	†3.8 *4*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
605.71 *2*	86.0 *11*	^{118}I(13.7 m)	545.12(10.9), 600.71(10.2), 1338.7(8.4)
605.71 *2*	99 *6*	^{118}I(8.5 m)	600.71(92), 614.42(65), 1257.7(24.2)
605.79 *14*	†4.0 *4*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
605.8 *2*	0.012 *3*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
605.8 *3*	0.027 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
605.8 *6*	0.039 *22*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
605.9 *6*		^{110}Te(18.6 s)	894.8, 219.1, 107.5
605.9 *2*	0.94 *11*	^{141}Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
605.9 *2*	0.14 *5*	^{141}Eu(2.7 s)	394.0(0.60), 882.9(0.54), 518.8(0.45)
• 605.9	0.024	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 605.9 *5*	0.0097 *25*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
605.9 *4*	0.6 *3*	^{198}Pb(2.40 h)	290.3(36), 365.4(19), 173.4(18)
• 605.93 *3*	0.163 *11*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
• 605.93 *3*	0.162 *10*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
• 605.95 *3*	0.025 *4*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
606.0 *4*	0.31 *5*	^{141}Eu(40.0 s)	394.0(9), 384.5(5.6), 382.9(2.97)
606.0 *3*	0.40 *4*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
606.0 *10*	†1.0 *4*	^{198}Tl(1.87 h)	636.4(†202), 411.8044(†202), 587.2(†185)
606.0 *7*	0.209 *22*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
606.02 *15*	0.56 *3*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
606.05 *8*	1.2 *3*	^{168}Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
• 606.09 *10*	8.12 *20*	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 306.47(2.6)
606.1 *2*	†6.6 *16*	^{105}Nb(2.95 s)	94.8(†100), 246.9(†79), 309.9(†41.9)
606.1 *2*	1.0	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
606.10 *7*	1.62 *8*	^{240}Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
606.10 *7*	0.67 *7*	^{240}Np(7.22 m)	554.60(20.9), 597.40(11.7), 1496.9(1.33)
• 606.10 *7*	0.070 *8*	^{240}Am(50.8 h)	987.76(73.2), 888.80(25.1), 98.860(1.5)
• 606.10 *7*	7.3×10^{-6} *10*	^{244}Cm(18.10 y)	42.824(.0044100), 98.860(.0001470), 152.63(<4.9×10^{-7})
606.17 *12*	1.71 *24*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
606.2 *2*	†7.0 *9*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
606.24 *25*	0.049 *8*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
606.27 *10*	†0.75 *6*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
606.3 *4*	0.08 *3*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
606.3 *3*	†0.40 *5*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
606.3	0.7	^{147}Ce(56.4 s)	268.80(7), 92.9(4.7), 374.23(3.5)
• 606.34 *7*	1.2	^{82}Br(35.30 h)	776.517(83.5), 554.348(70.8), 619.106(43.4)
606.34 *7*	2.01 *6*	^{82}Rb(6.472 h)	776.517(84), 554.348(62.4), 619.106(37.976)
606.4 *2*	0.119 *7*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
606.42 *6*	0.0017 *3*	^{145}Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
606.425 *20*	3.30 *17*	^{158}Eu(45.9 m)	944.09(25), 977.131(13.6), 79.5104(11)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
606.43 *5*	9.0 *6*	^{75}Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
606.49 *12*	3.1 *3*	^{112}Ag(3.130 h)	617.27(43), 1387.67(5.4), 694.66(3.0)
606.49 *12*	1.111 *19*	^{112}In(14.97 m)	617.27(4.6), 1253.43(0.218), 851.10(0.144)
606.5 *8*	0.25 *6*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
606.5 *4*	0.33 *3*	^{77}Kr(74.4 m)	129.64(81), 146.59(37.3), 312.0(3.7)
606.52 *10*	0.67 *10*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
606.6 *2*	1.15 *12*	^{96}Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
606.6 *2*	0.1	^{97}Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
606.6 *2*	†0.41 *23*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
606.6 *2*	†10	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
606.6 *15*	†2	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
606.66 *5*	0.0107 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
606.67 *16*	0.010 *5*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
606.68 *6*	0.01 *1*	^{28}Mg(20.91 h)	30.6383(95), 1342.27(52.6), 941.72(38.3)
606.7 *3*	1.48 *11*	^{91}Tc(3.3 m)	502.90(51.4), 927.60(3.79), 1328.40(2.55)
606.7 *1*	0.11 *4*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
606.7	0.018 *9*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
606.7 *2*	†11.3 *23*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
• 606.718 *3*	5.026 *21*	^{125}Sb(2.7582 y)	427.875(30), 600.600(17.86), 635.954(11.31)
606.73 *7*	0.155 *23*	^{132}Ce(3.51 h)	182.11(77), 155.37(10.5), 216.83(4.95)
606.76 *2*	18.8 *5*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 518.05(13.6)
606.8 *3*	0.21 *4*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
606.8 *2*	1.95 *17*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
606.8 *1*	†3.9 *4*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
• 606.9 *2*	1.20×10^{-7} *12*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
606.91 *15*	1.2	^{186}Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
607.0 *3*	0.11	^{113}Pd(93 s)	95.74(3.3), 643.7(3.0), 739.63(2.4)
607.0 *3*	0.6 *4*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
607 *1*	0.85 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
607.1 *5*	0.016 *5*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
607.1 *2*	0.046 *23*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
607.10 *18*	†2.7	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
• 607.141 *18*	0.49 *5*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
607.17 *18*		^{186}Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
607.20 *5*	3.53 *17*	^{79}Ga(2.847 s)	464.79(24.2), 516.41(21.5), 1187.28(12.8)
607.220 *20*	3.74 *3*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
607.3 *8*	0.17 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
• 607.324 *29*	0.167 *5*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
607.33 *11*	1.72 *15*	^{148}Ba(0.607 s)	56.08(29.20), 133.53(3.88), 415.78(3.59)
607.4 *3*	4.0 *4*	^{70}As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
607.4 *1*		^{115}Pd(25 s)	342.71(8), 303.87(7), 396.56(6)
607.4 *3*		^{116}Rh(0.9 s)	340.5(90), 639.4(52), 538.4(40)
• 607.5 *4*	0.025 *12*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
607.5 *3*	6.1 *5*	^{186}Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
607.5 *3*	†7.1 *7*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
607.5 *4*	0.0033 *15*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 607.5 *4*	†0.0114 *24*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
607.5 *3*	0.010 *6*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 607.5 *3*	0.049 *22*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
607.54 *6*	2.6 *10*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
607.59 *3*	5.5 *10*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
607.59 *5*	0.0039 *4*	^{194}Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 607.59 *5*	0.288 *18*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
607.6 *3*	0.032 *11*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
607.6 *2*	†7.7 *9*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
607.6 *2*	0.263 *15*	^{143}Eu(2.63 m)	1107.3(8), 1536.8(3.29), 1912.7(2.13)
607.64 *15*	8.3 *9*	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
607.68 *5*	2.28 *24*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
607.69 *13*	0.20 *6*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
607.8 *4*	0.7 *6*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
607.8 *1*	0.38 *7*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
607.88 *3*	1.36 *5*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
607.9 *2*	1.01 *12*	^{141}Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
607.94 *8*	0.15 *3*	^{78}Rb(17.66 m)	454.97(63), 692.86(12.56), 562.15(11.41)
607.94 *8*	0.032 *16*	^{78}Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
608.02 *4*	2.07 *24*	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
608.05 *10*	2.24 *24*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
608.1		^{75}Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
608.1 *4*	0.11 *5*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
608.151 *12*	2.90 *9*	^{135}Xe(9.14 h)	249.770(90), 408.009(0.359), 158.260(0.290)
608.2 *2*	†22.1 *17*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
608.2 *3*	0.022 *8*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
608.2 *8*	0.11 *5*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
608.2 *5*	†1.4 *3*	^{164}Hf(111 s)	122.1(†100), 153.3(†47), 313.7(†22)
608.2 *1*	17.9 *14*	^{192}Pb(3.5 m)	1195.4(47), 167.5(13.6), 781.6(8.5)
608.2 *8*		^{196}Pb(37 m)	253.1(27.0), 502.1(26.5), 366.5(11.1)
608.27 *25*	†<11	^{184}Tl(11 s)	366.51(†100), 286.80(†39), 340.0(†25)
608.29 *10*	2.01 *15*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
608.3 *2*	0.14	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
608.3 *3*	0.33 *6*	^{142}Cs(1.70 s)	359.598(27.2), 1326.46(12.92), 966.89(9.0)
608.30 *12*	0.45 *7*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
608.3 *10*	0.0043 *22*	^{219}Rn(3.96 s)	271.23(10.8), 401.81(6.37), 130.59(0.119)
608.35 *5*	1.07 *6*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
608.353 *5*	14.3 *7*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 867.898(8.7)
• 608.353 *5*	0.552 *12*	^{74}As(17.77 d)	595.847(59), 1204.208(0.285), 887.19(0.0255)
608.36 *20*		^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
608.4 *1*	0.400 *24*	^{113}Sb(6.67 m)	497.96(80), 332.41(14.8), 88.25(2.7)
608.40 *8*	3.7 *4*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
608.4 *4*	0.037	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
608.4 *3*	1.06 *19*	^{178}Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
608.5 *5*	2.4 *8*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
608.5 *5*	0.41 *8*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
608.5 *9*		^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
• 608.527 *16*	0.451 *14*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
608.55 *11*	0.258 *12*	^{81}Rb(4.576 h)	190.38(64.0), 446.15(23.2), 510.31(5.3)
608.6 *1*	1.18 *9*	^{51}Ti(5.76 m)	320.0842(93), 928.6(6.9)
608.6 *3*	2.5 *3*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
608.60 *14*	0.119 *17*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
608.6 *5*	†6.2 *10*	^{113}I(6.6 s)	462.5(†100), 622.4(†74), 351.5(†43)
608.6 *1*	0.55 *6*	^{140}Eu(1.51 s)	530.7(29), 1068.0(3.2), 459.9(3.19)
608.69 *17*	0.0167 *18*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
608.698 *5*	1.68 *18*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
608.8 *6*	0.53 *14*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
608.8 *3*	0.21	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
608.84 *13*	1.46 *12*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
608.9 *4*	0.27 *8*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
• 608.9 *2*	1.16×10^{-7} *12*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
608.93 *10*	0.28 *3*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
608.98 *10*	†8.6 *5*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
609.0 *1*	0.31	^{45}Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
609.0 *3*	2.56 *19*	^{113}Rh(2.72 s)	189.7(17.0), 409.3(15.9), 219.6(3.88)
609.0	0.37 *4*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
609.0 *2*	0.02	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
609.0 *3*	0.086 *13*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
609.0 *4*	0.10 *5*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 609 *1*	0.0073 *3*	^{231}Pa(32760 y)	27.36(10.3), 300.07(2.46), 302.65(2.2)
609.04 *29*	0.58 *12*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
609.1 *3*	1.3 *3*	^{81}Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
609.1 *3*	1.4 *3*	^{81}Ge(7.6 s)	93.10(26), 335.98(12.8), 197.30(12.3)
609.1 *8*	1.8	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
609.1 *4*	3.35 *6*	^{103}In(65 s)	187.97(55), 720.32(13.9), 739.95(10.1)
609.1 *1*	8.2 *5*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
609.13 *3*	24.6 *8*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
609.20 *10*	0.055 *4*	^{73}Se(7.15 h)	360.80(108), 67.03(78), 865.09(0.584)
609.2 *2*	1.05 *12*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
609.2 *2*	†1.0 *1*	^{104}Nb(0.92 s)	192.2(†100), 368.4(†20), 620.2(†19.2)
609.2 *4*	0.030	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
• 609.22 *10*	0.0134 *14*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
609.23 *15*	†16.2 *24*	^{155}Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
• 609.25 *10*	0.047 *5*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
609.25 *9*	0.076 *11*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
609.27 *17*	1.5 *4*	^{186}Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
609.3 *5*	1.1 *4*	^{113}Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
609.3 *2*	0.22 *5*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
609.3 *2*	0.76 *5*	^{143}Gd(39 s)	258.81(75), 204.77(19.4), 463.7(9.9)
609.3 *3*	0.07 *4*	^{150}Tb(3.48 h)	638.05(72), 496.3(14.8), 792.5(4.39)
609.3 *5*	†0.50 *23*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
609.3 *9*	0.16 *8*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
609.3 *3*	0.225 *23*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
609.312 *7*	44.8 *5*	^{214}Bi(19.9 m)	1764.494(15.36), 1120.287(14.80), 1238.110(5.86)
609.312 *7*	0.124 *7*	^{218}Rn(35 ms)	
• 609.32 *4*	0.056 *3*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
609.38 *20*	0.138 *24*	^{89}Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
609.38 *4*	0.043 *7*	^{211}Pb(36.1 m)	404.853(3.78), 832.01(3.52), 427.088(1.76)
609.4 *2*	2.3 *8*	^{103}Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
609.4 *2*	0.05 *5*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
• 609.4 *1*	0.182 *20*	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
609.4 *2*	†5.5 *16*	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
609.41 *19*	2.88 *14*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
609.41 *12*	0.32 *4*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
609.44 *30*	0.026 *8*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
609.45 *5*	0.108 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
609.45 *7*	0.156 *21*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
609.45 *10*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
• 609.47 *10*	0.024 *7*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
609.49 *13*	0.31 *4*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
609.5 *1*	0.155 *4*	^{65}Ni(2.5172 h)	1481.84(24), 1115.546(15.43), 366.27(4.81)
609.5 *1*	2.0 *3*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
• 609.5 *7*	0.004 *3*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
609.5 *7*	†1.06×10^3 *13*	^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
609.5		^{108}Rh(16.8 s)	433.937(43), 618.84(15.0), 497.22(5.2)
609.5 *4*	0.31 *4*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
609.5 *3*	5.8 *4*	^{148}Er(4.6 s)	1311.8(8.9), 244.0(7.1), 315.3(6.9)
609.5 *5*	†21 *6*	^{157}Yb(38.6 s)	230.92(†100), 340.7(†90), 241.7(†74)
609.6 *1*	3.1 *3*	^{100}Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
609.60 *30*	0.7	^{116}Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
609.6 *1*	0.038 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
609.6 *5*	0.54 *5*	^{169}Ho(4.7 m)	788.4(21.2), 853.0(11.2), 760.8(10)
609.7	0.34	^{144}Tb(4.25 s)	743.0(12), 1001.6(7), 959.36(4.7)
609.7 *3*	0.86 *10*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
609.8	0.043	^{83}As(13.4 s)	734.60(43), 1113.10(14.7), 2076.70(11.9)
609.8 *5*	2.8 *3*	^{85}Se(31.7 s)	345.2(<0.23), 3396.6(7.4), 1427.2(7.0)
609.8 *5*	0.45 *23*	^{117}I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
609.8 *5*	0.039 *10*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
609.9 *2*	9.9 *4*	^{120}In(47.3 s)	1171.3(100), 1023.1(97.4), 197.3(80.6)
609.9 *1*	0.025 *6*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
609.9 *3*	2.0 *4*	^{132}Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
609.9 *4*	0.026 *4*	^{137}Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
609.94 *4*	0.079 *4*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
609.98 *9*	0.044 *7*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
610.0 *5*		^{125}La(76 s)	67.6(34), 43.6(3.5), 985.2
610.0 *3*	†0.06 *1*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
610.0 *8*	1.47 *21*	^{132}I(1.387 h)	600.1(14.0), 173.7(8.8), 614.0(2.5)
610.0 *3*	0.085	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
610.05 *23*	0.0011 *3*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
• 610.062 *2*	44.2 *10*	^{172}Er(49.3 h)	407.338(42.1), 68.107(3.29), 446.025(2.96)
610.1 *4*	0.18 *3*	^{93}Rb(5.84 s)	432.61(17.4), 986.05(6.8), 213.429(6.7)
610.1 *2*	0.124 *25*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
610.1 *7*	0.28 *3*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
610.1 *2*	0.38 *8*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
610.12 *10*	3.40 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
610.191 *3*	0.015 *6*	^{199}Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
610.2 *7*	0.018 *10*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
• 610.2 *5*	0.012 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
610.2 *2*	†3.0×10^2 *12*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
610.2 *3*	0.20 *6*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
610.294 *50*	0.0053 *5*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
• 610.33 *20*	5.75 *5*	^{103}Ru(39.26 d)	497.080(90.9), 443.799(3.27), 557.039(0.8672)
• 610.381 *7*	0.0215 *21*	^{77}Br(57.036 h)	238.996(23), 520.639(22.4), 297.215(4.16)
610.4 *3*	12.3 *18*	^{132}Pm(6.3 s)	212.5(88), 397.2(23), 823.5(11.4)
610.4 *3*	0.81 *12*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
610.4 *7*	0.29 *6*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 610.43 *10*	1.59 *14*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
610.43 *4*		^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
610.46 *7*	0.60 *6*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
610.5	†2.7	^{107}Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
610.5 *3*	†2.3 *5*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
610.5 *5*	11.9 *12*	^{196}Tl(1.84 h)	426.0(84), 635.5(9.8), 1495.8(8.2)
610.5 *5*	†30 *3*	^{196}Tl(1.41 h)	426.0(†540), 635.5(†304), 695.6(†243)
610.57 *9*	3.5 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
610.58 *18*	0.62 *9*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
610.6 *3*	0.78 *13*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
610.6 *2*	3.9 *6*	^{115}Te(6.7 m)	770.40(34.2), 723.569(18), 1071.70(12.9)
610.6 *5*	0.30 *14*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
610.6 *5*	4.7 *10*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
• 610.616 *17*	0.479 *14*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
610.62 *12*		^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
610.64 *10*	0.024 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
610.68 *11*	3.93 *15*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
610.77 *5*	4.8 *13*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
610.77 *5*	2.0 *7*	^{106}In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
610.8 *3*	1.5 *3*	^{76}Rb(39.1 s)	2571.3(47), 424.0(43.4), 355.6(8.2)
610.8 *3*	0.0028 *11*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
610.89 *20*	20.1 *13*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
610.9 *2*	0.81 *9*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
610.9	0.9	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
610.93 *6*	1.07 *7*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
610.96 *14*	0.0614 *16*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
611	>0.023	^{60}Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
611 *1*	0.04 *1*	^{87}Zr(1.68 h)	1227(1.0), 1209.8(0.33), 1024(0.28)
611.0 *5*	0.045 *10*	^{113}Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
611.0 *1*	0.68 *7*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
611.0 *3*	0.172 *18*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
611.046	56 *14*	^{42}Ti(199 ms)	2222.6(0.67), 636.4(0.7), 975.25(0.6)
611.1 *3*	0.047 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
611.1 *1*	†85.0 *6*	^{200}At(43 s)	665.9(†100), 484.5(†49.8), 565.0(†17.0)
611.16 *2*	1.09 *6*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
611.16 *8*	1.3	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
611.19 *8*	0.26 *3*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
611.2 *2*	3.2 *5*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
611.2 *5*	0.49 *8*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
611.2 *2*	0.021 *8*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
611.24 *9*	†1.15 *8*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
• 611.293 *8*	5.46 *9*	^{148}Pm(41.29 d)	550.284(94.5), 629.987(89), 725.673(32.7)
• 611.293 *8*	1.021 *11*	^{148}Pm(5.370 d)	1465.12(22), 550.284(22.00), 914.85(11.46)
• 611.293 *8*	20.5 *4*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 553.231(12.9)
611.3 *2*	0.66 *7*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
611.3 *4*	0.018 *4*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
611.3 *3*	5.7 *5*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
611.3	0.018 *5*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
611.37 *8*	1.02 *7*	^{78}Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
611.38 *10*	0.57 *5*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
611.4 *2*	0.094 *10*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
611.4 *2*	1.2	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
611.407 *18*	0.777 *23*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
• 611.46 *25*	0.015 *4*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
611.5 *10*	0.19 *6*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
611.5 *8*	0.24 *6*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
611.5 *4*	6.0 *6*	^{186}Pt(2.0 h)	276.7(0), 635.6(>3.8), 366.7(2.3)
611.51 *14*	0.140 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 611.55 *3*	1.408 *22*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
611.6 *5*	0.30	^{86}Se(15.3 s)	2441.1(43.0), 2660.0(21.6), 48.3(15.4)
611.60 *11*	0.50 *5*	^{100}Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
611.6 *5*	0.14 *3*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
611.6 *5*	>0.35	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
611.7 *3*	0.29 *11*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
611.74 *4*	0.0022 *11*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
611.79 *14*	0.83 *10*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
611.8 *1*	1.3 *3*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
611.8 *2*	5.96 *10*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
611.8 *4*	0.43 *9*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
611.81 *7*	2.89 *6*	^{148}La(1.05 s)	158.468(55.6), 989.85(9.3), 760.30(8.6)
611.83 *6*	2.60 *6*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
611.83 *6*	0.25 *4*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
611.84 *10*	9.8 *6*	^{68}As(151.6 s)	1015.96(78), 761.61(33.8), 651.12(32.1)
611.88 *15*	0.25 *4*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
611.9 *2*	1.08 *5*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
611.9 *5*	†4.3 *14*	^{112}Te(2.0 m)	372.70(†100), 296.20(†86), 418.9(†57)
611.9 *3*	0.67 *8*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
611.9 *3*	†2.1 *4*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
611.93 *6*	0.88 *5*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
612.00 *10*	5.7 *3*	^{86}Zr(16.5 h)	242.80(96), 29.10(21.6), 135.6(0.47)
612.0 *3*	6.5 *7*	^{98}Ag(46.7 s)	863.1(100), 678.5(85), 570.93(53)
612.0 *2*	0.17 *11*	^{232}Ac(119 s)	665.0(15.3), 1899(8.9), 1959(5.4)
612.0 *1*	0.38 *3*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 612.02 *3*	0.107 *3*	^{103}Ru(39.26 d)	497.080(90.9), 610.33(5.75), 443.799(3.27)
612.098 *7*	0.011 *6*	^{200}Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
• 612.098 *7*	0.24 *4*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
• 612.15 *15*	0.0417 *13*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
612.2 *5*	†22 *10*	^{17}C(193 ms)	1373.8(†100), 1849.5(†92), 1906.7(†29)
612.2 *3*	0.95 *14*	^{72}Cu(6.6 s)	652.4(68), 1004.6(12.0), 1657.7(10.1)
612.2 *2*	0.114 *22*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
612.2 *5*	†0.18 *9*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
612.2 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
612.22 *7*	0.083 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
612.25 *8*	0.93 *7*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
612.3 *4*	35.4 *21*	^{179}Yb(8.0 m)	592.1(75), 381.4(9.6), 653.7(9.2)
612.3 *1*	5.0 *5*	^{232}Ac(119 s)	665.0(15.3), 1899(8.9), 1959(5.4)
612.39 *11*	0.31 *5*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
612.4 *3*	0.63 *13*	^{88}Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
612.4 *3*	†4.3	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
612.44 *5*	0.165 *9*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
• 612.46564 *20*	0.309 *17*	^{192}Ir(73.831 d)	316.50791(82.81), 468.07152(47.83), 308.45692(30.00)
612.46564 *20*		^{192}Ir(1.45 m)	295.95827, 316.50791
612.46564 *20*	0.34 *4*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
612.5 *2*	4.8 *6*	^{79}Sr(2.25 m)	39.41(28), 105.00(21.8), 413.8(7.6)
612.6		^{130}Pr(40.0 s)	951.9, 499.0, 1405
• 612.69 *3*	>0.09	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
• 612.693 *28*		^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
612.70 *20*	0.38 *3*	^{112}Sb(51.4 s)	1257.05(96), 990.70(14.3), 670.0(3.7)
• 612.70 *3*	0.093 *6*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
612.8 *3*	0.29 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
612.8 *2*	†3.2 *3*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
612.82 *4*	4.5 *5*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
• 612.834 *6*	9.5×10^{-7} *5*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
612.87 *6*	7.7 *4*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 1108.68(7.2)
612.9 *3*	0.18 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
612.97 *8*	0.245 *24*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
613 *3*	<3.8	^{14}B(13.8 ms)	6092.4(86), 6726.5(8.6), 1248(<5.6)
613.0 *2*	†16.0 *8*	^{110}Tc(0.92 s)	240.67(†100), 372.1(†17.0), 619.2(†14)
613.0	0.19	^{149}Ho(21.1 s)	1090.7(74.8), 1073.2(6.37), 1583.6(4.48)
613 *1*	†26	^{178}Os(5.0 m)	968.7(†100), 1331.1(†94), 594.6(†72)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
613.054 *18*	0.670 *17*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
613.06 *4*	1.200 *24*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
613.06 *8*	1.37 *7*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
• 613.1 *5*	0.012 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
613.13 *15*	0.45 *7*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
613.2 *3*	0.77 *7*	^{201}Au(26 m)	542.6(1.2), 517.0(0.83), 167.43(0.64)
• 613.288 *10*	0.094 *3*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
613.3 *4*	0.06 *3*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
613.36 *3*	1.1 *3*	^{182}Hf(61.5 m)	942.80(18.8), 799.64(9.4), 114.3152(6.2)
613.4 *3*	0.050 *8*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
613.4 *3*	0.017 *5*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
613.4	0.17	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
613.4 *2*	1.27 *10*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
613.493 *13*	0.00308 *22*	^{128}I(24.99 m)	442.901(17), 526.557(1.58), 969.458(0.404)
613.493 *13*	0.351 *11*	^{128}Cs(3.66 m)	442.901(26.8), 526.557(2.41), 1140.079(1.168)
613.5 *4*	0.24 *7*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
613.5 *10*	0.10 *6*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
613.5 *2*	†40 *2*	^{191}Pb(2.18 m)	387.1(†100), 712.2(†46), 936.8(†37)
613.52 *3*	0.32 *4*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
613.52 *20*	0.047 *7*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
613.6 *3*	2.28 *22*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
613.6 *2*		^{130}Pr(40.0 s)	951.9, 499.0, 1405
613.6 *4*	†1.5	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
613.6 *3*	0.019 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
613.6 *3*	0.0021 *6*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
613.66 *33*	†1.0 *3*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
613.68 *10*	†4.8 *5*	^{182}Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
613.69 *4*	0.779 *22*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
613.725 *3*	54	^{78}As(90.7 m)	694.916(16.7), 1308.59(13.0), 828.189(8.1)
613.725 *3*	14	^{78}Br(6.46 m)	884.861(0.068), 694.916(0.058), 1923.15(0.0490)
613.73 *14*	0.017 *6*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
613.8 *2*	1.8 *3*	^{135}Pr(24 m)	296.12(24), 82.64(13.7), 213.45(13.0)
613.8 *2*	73 *14*	^{152}Ho(161.8 s)	613.8(14), 1098.0(12), 838.0(10)
613.8 *3*	14 *3*	^{152}Ho(161.8 s)	613.8(73), 1098.0(12), 838.0(10)
613.8 *2*	88.4 *4*	^{152}Ho(49.5 s)	647.2(92), 683.3(88), 492.9(72.5)
613.8 *3*	13.2 *4*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
613.8 *3*	0.16 *5*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
613.81 *30*	0.036	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
613.86 *8*	†1.96 *14*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
613.88 *10*	0.71 *8*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
613.89 *4*	0.243 *19*	^{81}Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
• 613.9 *3*	0.035 *19*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 613.92 *2*	0.0149 *9*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 613.92 *2*	0.00026 *1*	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
614	>0.022	^{60}Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
614.0 *3*	4.0 *10*	^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
614	†1.2	^{120}I(81.0 m)	560.44(†137), 1523.0(†21.1), 640.85(†17.1)
614.0 *8*	2.5 *7*	^{132}I(1.387 h)	600.1(14.0), 173.7(8.8), 610.0(1.47)
• 614.00 *20*	0.0090 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
614.1 *4*	0.20 *16*	^{100}Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
614.1 *4*	1.8 *9*	^{100}Ag(2.24 m)	665.54(86), 750.67(>26), 1693.9(14.7)
614.1 *5*	2.1 *5*	^{180}Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
614.11 *18*	0.280 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
614.2 *9*	0.05 *3*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
614.2 *1*	1.16 *9*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
614.2 *4*	1.81 *12*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
614.2 *1*	0.168 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
• 614.22 *3*	0.0120 *13*	^{143}Ce(33.039 h)	293.266(42.80), 57.356(11.7), 664.571(5.69)
614.229 *24*	0.47 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
614.25 *7*	1.59 *7*	^{205}Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
614.26 *6*	1.70 *15*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
• 614.265 *50*	0.0139 *25*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
614.281 *6*	21.0 *18*	^{108}Rh(6.0 m)	433.937(88), 581.1(60), 947.27(49)
• 614.281 *6*	89.8 *18*	^{108}Ag(418 y)	722.938(90.8), 433.937(90)
614.3 *5*	1.00 *25*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
614.30 *10*	0.52 *4*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
614.3 *1*	0.00333 *12*	^{163}Er(75.0 m)	1113.5(0.0490), 436.1(0.0285), 439.94(0.0276)
614.3 *2*	†5.0 *5*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
614.3 *3*	0.17 *4*	^{188}Hg(3.25 m)	66.7(63), 190.1(4.40), 82.7(2.6)
614.3 *5*	†56 *11*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
614.32 *10*	0.50 *13*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
614.38 *9*	0.211 *16*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
614.39 *20*	0.51 *5*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
614.39 *20*	0.089 *9*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
614.39 *20*	0.044 *6*	^{77}Ge(52.9 s)	215.50(21), 194.76(0.408), 419.75(0.094)
614.4 *5*	0.476 *22*	^{97}Pd(3.10 m)	265.26(56), 475.2(26.7), 792.70(13.8)
614.4 *5*	†1.3	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
614.4 *10*	0.19 *4*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
614.4		^{206}At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
614.40 *5*	6.2 *6*	^{206}At(30.0 m)	700.66(98), 477.10(86), 395.54(48)
614.42 *2*	65 *6*	^{118}I(8.5 m)	605.71(99), 600.71(92), 1257.7(24.2)
614.5 *1*	1.46 *9*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
614.5 *2*	0.342 *18*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
614.5 *2*	0.22 *4*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
614.58 *7*	7.2 *7*	^{80}Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
614.6 *2*	†5.3 *8*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
614.62 *4*	67 *13*	^{120}I(53 m)	560.44(100), 601.11(87), 976(35)
• 614.63 *10*	0.204 *8*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
614.64 *13*	†8.1 *10*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
614.67 *15*	0.64 *5*	^{124}In(3.17 s)	1131.64(68), 3214.15(21.5), 997.79(21.1)
614.7 *1*	0.13 *4*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)
614.7 *3*	0.60 *8*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
614.8 *4*	0.53 *11*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
614.8 *4*	0.66 *13*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
614.82 *91*	0.046 *17*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
614.83 *13*	0.029 *4*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
• 614.854 *3*	0.0304 *20*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
614.87 *5*	5.0 *5*	^{98}Rh(3.5 m)	652.43(96), 745.36(78), 1144.52(8.5)
• 614.89 *10*	0.10 *3*	^{79}Kr(35.04 h)	261.29(13), 397.54(9.3), 606.09(8.12)
614.9 *1*	2.07 *11*	^{73}Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
614.9 *3*	†0.55 *7*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
614.9 *4*	0.100 *25*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
615 *1*	4.1 *6*	^{70}As(52.6 m)	1039.20(81), 1114.1(21.8), 668.3(21.8)
615.0 *5*	0.22	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
615.1 *3*	30.4 *19*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 622.3(10.4)
615.1 *2*	0.75 *12*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
615.10 *9*	1.38 *13*	^{123}Cd(2.10 s)	371.32(51), 1052.28(24.8), 1438.13(8.3)
615.17 *10*	0.26 *19*	^{74}Br(25.4 m)	634.78(64), 219.05(18.1), 634.26(14.1)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
615.17 *10*	6.7 *7*	^{74}Br(46 m)	634.78(91), 728.37(35.6), 634.26(16.4)
615.182 *26*	0.331 *22*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
615.2 *2*	†0.35 *11*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
615.2	†8	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
615.21 *8*	2.26 *18*	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
• 615.21 *3*	0.233 *18*	^{181}Hf(42.39 d)	482.182(80.50), 133.024(43.3), 345.916(15.12)
615.22 *9*	0.103 *16*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
615.26 *4*	0.358 *20*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
615.28 *7*	28 *1*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
615.3 *2*	0.16 *5*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
615.3 *4*	0.33 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 615.365 *2*	0.526 *3*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
615.39 *12*	0.27 *3*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
615.4 *3*	4.3 *5*	^{190}Tl(3.7 m)	416.4(91), 625.4(82), 731.1(37)
615.4 *3*	>0.8	^{190}Tl(2.6 m)	416.4(79), 625.4(11.1), 683.5(8.7)
• 615.41 *20*	0.00084 *8*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
615.42 *15*	0.194 *13*	^{190}Re(3.1 m)	186.718(48.4), 557.972(28.2), 223.811(26.0)
615.42 *15*	0.175 *18*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 615.42 *15*	0.47 *3*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
615.49 *19*	0.31 *3*	^{186}Au(10.7 m)	191.56(62), 298.67(25.4), 764.89(10.5)
615.5 *1*	0.027 *5*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
615.6 *1*	1.04 *10*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
615.6 *3*	0.47	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
• 615.7 *1*	0.0020 *15*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
615.7 *3*	0.40 *5*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
615.7 *2*	†2.6 *10*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
615.7 *2*	†0.82 *21*	^{194}Bi(92 s)	965.4(†100.0), 575.1(†98.0), 280.1(†73.7)
615.78 *6*	0.044 *12*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
615.8 *4*	†13.5 *16*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
615.90 *7*	0.067 *5*	^{96}Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
615.9 *3*	0.019 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
615.9 *4*	†0.46 *5*	^{196}Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
• 615.963 *15*	0.096 *7*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
615.963 *15*	0.144 *3*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
616 *1*	†1.5 *3*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
616.0 *1*	0.15 *10*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
616 *1*	0.0009	^{251}Fm(5.30 h)	425.4(0.95), 480.4(0.392), 358.3(0.315)
• 616.05 *3*	0.0090 *8*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)
616.08 *14*	1.03 *8*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
616.08 *14*	93.10 *3*	^{190}Ir(3.25 h)	502.53(92.31), 361.136(89.57), 186.718(66.3)
616.1 *4*	0.23 *4*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
616.17 *4*	0.045 *7*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
616.174 *24*	0.75 *8*	^{106}Rh(29.80 s)	511.842(20), 621.94(9.93), 1050.39(1.56)
616.174 *24*	20.2 *14*	^{106}Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
616.174 *24*	0.142 *5*	^{106}Ag(23.96 m)	511.842(17.0), 621.94(0.316), 873.48(0.199)
• 616.174 *24*	21.6 *6*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
616.2	0.010	^{148}Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
• 616.2 *4*	0.019 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
616.2 *4*	0.10 *4*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
616.2 *3*	†1.7 *3*	^{160}Lu(36.1 s)	243.2(†100), 395.4(†21.0), 577.2(†10.7)
616.2 *4*	0.07 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
616.2 *1*	1.56 *8*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
616.2 *4*	0.22 *6*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
616.22 *3*	0.082 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
616.26 *10*	0.37 *5*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
616.29 *23*	†1.8 *4*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
616.3 *2*	1.8 *4*	^{81}Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
• 616.3 *3*	†0.0034	^{101}Rh(4.34 d)	306.85(†115), 545.06(†6.1), 127.23(†0.85)
• 616.3	4.2×10^{-6}	^{253}Es(20.47 d)	41.79(0.050), 389.11(0.0264), 387.1(0.00810)
616.4	†2	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
616.42 *10*	1.1 *1*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
• 616.49 *2*	1.284 *13*	^{95}Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
616.5 *2*	0.86 *5*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
616.5 *2*	†33 *3*	^{87}Nb(2.6 m)	200.95(†100), 470.63(†73), 1066.8(†37)
616.5 *3*	0.00181 *8*	^{159}Gd(18.479 h)	363.55(11.4), 58.00(2.15), 348.16(0.234)
616.5 *6*	†1.0	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
616.5 *4*	0.16 *9*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
616.5 *3*	0.19 *4*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
616.51 *11*	0.101 *7*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
616.561 *15*	10.4 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
616.6 *1*	7	^{80}Br(17.68 m)	639.6(0.261), 703.9(0.19), 1256.3(0.074)
616.6 *1*	25	^{80}Rb(34 s)	703.9(1.88), 639.6(1.50), 1256.3(0.57)
616.67 *7*	6.9 *4*	^{100}Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
616.7 *1*	0.198 *22*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
616.79 *8*	1.0	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
616.83 *25*	†<8	^{184}Tl(11 s)	366.51(†100), 286.80(†39), 340.0(†25)
616.84 *10*	0.68 *12*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
616.9 *2*	0.038 *17*	^{135}I(6.57 h)	1260.409(28.90), 1131.511(22.74), 1678.027(9.62)
616.91 *21*	0.027 *5*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
617 *1*	0.17	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
617 *1*	0.041 *17*	^{89}Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
617.0 *10*	4.0×10^{-5} *4*	^{104}Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
617.0 *10*	0.56 *19*	^{104}Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
617.0 *3*	2.0 *3*	^{135}Nd(12.4 m)	204.02(52), 41.43(23), 441.2(14.9)
617.0	0.14 *3*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
• 617.0 *5*	0.023 *7*	^{166}Ho(1.20×10^{3} y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
617.0 *3*	†1.2 *2*	^{182}Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
617.0 *5*	0.10 *3*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
617.0 *2*	0.052 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
617.0 *2*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
617.1	56	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 1106.88(49)
617.1 *4*	0.15 *6*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
617.1 *3*	0.033 *12*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 617.10 *10*	1.34×10^{-6} *7*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
617.1 *2*	0.21 *4*	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
617.2 *4*	0.28 *11*	^{97}Rh(46.2 m)	189.21(49), 2245.6(14), 421.55(12.7)
617.2 *3*	†2.67 *13*	^{187}Pb(15.2 s)	299.5(†100), 493.6(†2.67), 448.7(†1.33)
617.2 *4*	0.25	^{199}Po(4.13 m)	1002.19(19), 1034.3(16), 362.01(7)
617.20 *4*	1.80 *11*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
617.27 *19*	43	^{112}Ag(3.130 h)	1387.67(5.4), 606.49(3.1), 694.66(3.0)
617.27 *19*	4.6	^{112}In(14.97 m)	606.49(1.111), 1253.43(0.218), 851.10(0.144)
617.30 *15*	0.27 *3*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
617.34 *10*	0.051 *5*	^{101}Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
• 617.34 *10*	0.011 *4*	^{122}Sb(2.70 d)	564.119(69), 692.794(3.78), 1256.901(0.80)
617.34 *10*	0.0245 *18*	^{122}I(3.63 m)	564.119(18), 692.794(1.325), 793.278(1.297)
• 617.36 *11*	0.065 *4*	^{238}Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
• 617.36 *11*	0.009	^{238}Np(2.117 d)	984.45(27.8), 1028.54(20.3), 1025.87(9.6)
617.36 *11*	0.73 *6*	^{238}Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 617.36 *11*	0.000008 *2*	^{242}Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
• 617.36 *11*	1.6×10^{-7}	^{242}Cm(162.8 d)	44.08(0.0325), 101.90(0.0025), 157.42(0.0014)
617.4	0.49	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
617.4 *1*	4.7 *5*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
617.4 *3*	0.17 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
• 617.4 *4*	0.043 *8*	^{226}Ac(29 h)	230.37(27), 158.18(17.5), 72.20(0.56)
• 617.4 *4*	0.000040 *20*	^{230}U(20.8 d)	72.20(0.60), 154.23(0.125), 230.37(0.122)
617.41 *9*	0.08 *3*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
617.490	79.2 *6*	^{43}K(22.3 h)	372.760(87), 396.861(11.85), 593.390(11.26)
617.5 *3*	0.12 *4*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
617.5 *3*	0.07 *4*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
617.50 *7*	0.34 *8*	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
617.5 *3*	0.33 *13*	^{153}Ho(2.0 m)	295.8(67), 637.0(5.36), 688.5(3.7)
617.5 *6*	†4.6 *9*	^{160}Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
617.6 *3*	0.16 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
617.6 *10*	0.09 *5*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
617.67 *11*	1.9 *3*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
• 617.682 *25*	0.236 *19*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
617.7 *2*	0.114 *6*	^{75}Ge(82.78 m)	264.6584(11), 198.6031(1.19), 468.8(0.223)
• 617.7 *2*	0.0046 *12*	^{75}Se(119.779 d)	264.6584(58.50), 136.0008(58.3), 279.5441(24.79)
617.7 *2*	1.65 *24*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
617.70 *17*	0.0153 *6*	^{159}Gd(18.479 h)	363.55(11.4), 58.00(2.15), 348.16(0.234)
617.7 *1*	19.7 *10*	^{200}Po(11.5 m)	671.0(34.0), 434.4(9.3), 796.7(7.9)
• 617.71 *20*	0.00116 *11*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
617.77 *16*	0.34 *5*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
617.8 *3*	12.0 *10*	^{99}Rh(4.7 h)	340.71(70), 1261.2(11), 936.7(2.20)
617.8 *1*	1.04 *7*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
• 617.8 *4*	0.019 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
617.80 *7*	2.20 *9*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
617.82 *20*	12.1 *9*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
• 617.85 *7*	1.16 *5*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
617.85 *7*	†69 *56*	^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)
617.88 *10*	7.4 *4*	^{125}In(2.36 s)	1335.04(71), 1031.75(9.6), 744.62(5.2)
617.9 *10*	0.11 *5*	^{109}Rh(80 s)	326.868(54), 426.135(7.7), 178.034(7.6)
617.9	0.008 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
617.974 *17*	0.544 *12*	^{133}I(20.8 h)	529.872(87.0), 875.329(4.51), 1298.223(2.35)
618.0 *3*	0.078 *18*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
618.0 *5*	0.022 *4*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
618.0 *11*	0.12 *4*	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
618.01 *3*	†1.5 *6*	^{144}Pr(7.2 m)	1631.4(†2.8), 1885.0(†0.9), 814.1
• 618.01 *3*	98.6 *10*	^{144}Pm(363 d)	696.510(99), 476.8(42.0), 778.5(1.51)
• 618.12 *5*	0.037 *4*	^{140}La(1.6781 d)	1596.210(95), 487.021(45.5), 815.772(23.28)
• 618.13 *10*	3.6 *5*	^{99}Rh(16.1 d)	528.24(33), 353.05(30.0), 89.65(29.0)
618.153 *17*	0.0241 *12*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
618.17 *14*	1.37 *3*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
618.2 *10*		^{77}Ga(13.2 s)	469.4(†100), 458.6(†48), 2187.3
618.2 *2*	0.61 *4*	^{83}Y(7.08 m)	35.50(0.44), 882.1(6.30), 489.90(5.53)
618.23 *5*	0.95 *14*	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
618.241 *11*	0.823 *25*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
618.25 *10*	0.29 *3*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
618.3 *4*	0.35 *4*	^{92}Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
618.3 *2*	†5.0 *7*	^{114}Cs(0.57 s)	449.7(†100), 698.2(†11.8), 758.2(†3.0)
618.3 *4*	0.25 *8*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
618.314 *16*	†72 *4*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 618.334 *6*	2.04×10^{-6} *6*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
618.34 *12*	0.50 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
618.361 *20*	6.28 *14*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
618.37 *12*	†2.5 *3*	^{83}Ge(1.85 s)	306.51(†100.0), 1193.77(†20.5), 1525.50(†13.6)
618.40 *16*	0.93 *7*	^{61}Fe(5.98 m)	1205.07(44), 1027.42(42.7), 297.90(22.2)
618.4 *3*		^{146}Dy(29 s)	2156.8, 1915.7, 1876.7
618.41 *14*	0.000129 *20*	^{127}Te(9.35 h)	417.95(1.0), 360.32(0.1346), 202.860(0.0580)
• 618.41 *14*	0.0142 *8*	^{127}Xe(36.4 d)	202.860(68), 172.132(25.5), 374.991(17.2)
618.5 *5*	0.10 *5*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
618.5 *1*	0.29 *10*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
618.5 *2*	†70 *10*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
618.59 *4*	0.100 *6*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
618.60 *20*	†25 *3*	^{106}Mo(8.4 s)	465.70(†100), 54.00(†54), 595.40(†17.9)
618.6 *5*	1.76 *22*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
618.6 *2*	1.5 *4*	^{129}Sn(2.23 m)	645.13(100), 80.5(6.6), 913.2(5.0)
618.7 *4*	1.52 *23*	^{65}Ge(30.9 s)	649.7(33), 62.0(27), 809.1(21.5)
618.7 *3*	31 *3*	^{114}Rh(1.85 s)	332.9(87), 519.8(48.4), 647.8(28)
618.7 *2*	0.097 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
• 618.7 *4*	0.009 *3*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
618.8 *4*	0.30 *10*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
618.8 *3*	2.6 *2*	^{123}In(5.98 s)	1130.5(63), 1019.7(32), 845.5(1.3)
618.8 *5*	†0.10 *2*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
618.8 *6*	0.36	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
618.84 *5*	15.0 *13*	^{108}Rh(16.8 s)	433.937(43), 497.22(5.2), 931.15(1.46)
618.84 *5*	0.261 *13*	^{108}Ag(2.37 m)	433.937(0.50), 1007.22(0.0139), 510.1(>0.0035)
618.9 *6*	0.25 *6*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
618.9 *10*	0.082 *17*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
• 618.95 *10*	0.0739 *22*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
619.0 *10*	0.012 *12*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
• 619.00 *10*	3.61 *16*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
619.0 *3*	0.078 *18*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
619.0 *2*	0.036 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
619.01 *4*	0.37 *3*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 619.01 *2*	$\dagger5.94\times10^{5}$ *6*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^{9}), 33.195(†6000×10^{8})
• 619.04 *4*	0.0250 *12*	^{181}Hf(42.39 d)	482.182(80.50), 133.024(43.3), 345.916(15.12)
619.08 *5*	1.08 *3*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
619.1 *4*	0.21 *3*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
• 619.106 *4*	43.4 *4*	^{82}Br(35.30 h)	776.517(83.5), 554.348(70.8), 698.374(28.49)
619.106 *4*	<0.0049	^{82}Br(6.13 m)	776.517(0.26), 698.374(0.0340), 1474.88(0.0198)
619.106 *4*	37.976 *8*	^{82}Rb(6.472 h)	776.517(84), 554.348(62.4), 1044.002(32.068)
619.2 *2*	†14 *1*	^{110}Tc(0.92 s)	240.67(†100), 372.1(†17.0), 613.0(†16.0)
619.2 *1*	0.58 *6*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
619.2 *3*	0.66 *15*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
619.2 *3*	†5.8 *7*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
619.2 *3*	0.047 *9*	^{195}Ir(3.8 h)	98.85(10), 684.88(9.4), 432.86(9)
619.23 *4*	0.867 *22*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
619.25 *12*	2.86 *24*	^{45}Ar(21.48 s)	1020.04(34.0), 3703.2(33.3), 61.35(25.0)
• 619.28 *3*	1.21×10^{-6} *8*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 619.3 *4*	0.0042 *10*	^{111}Ag(7.45 d)	342.118(7), 245.422(1.24), 96.73(0.20)
619.3 *5*	0.059 *10*	^{114}Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
619.3 *3*	0.28 *9*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
619.3 *3*	0.121 *20*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
619.303 *12*	3.55 *18*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
619.40 *16*	77 *4*	^{78}Ga(5.09 s)	1186.42(20.1), 567.06(18.2), 1025.11(12.4)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
619.4 *4*	0.45 *9*	^{175}Ta(10.5 h)	207.4(14.0), 348.5(12.0), 266.9(10.8)
619.4 *4*	0.30 *6*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
619.4 *2*	†1.79 *12*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
619.42 *4*	0.0020 *4*	^{205}Hg(5.2 m)	203.750(2.2), 415.70(0.0130), 1218.96(0.0062)
619.44 *10*	0.065 *9*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
619.45 *12*	0.040 *6*	^{101}Pd(8.47 h)	296.29(19), 590.44(12.06), 269.67(6.43)
619.46 *15*	>0.08	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
619.49 *25*	0.0028 *11*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
619.5 *4*	0.39 *4*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
619.5 *3*	0.090 *9*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
619.55 *15*	0.88 *16*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
• 619.69 *10*	0.159 *22*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
619.7 *3*	1.6 *3*	^{131}Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
619.7 *5*	0.022 *13*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
619.7 *3*	0.018 *5*	^{139}Cs(9.27 m)	1283.23(8.3), 627.24(1.78), 1420.66(0.91)
619.7 *1*	2.05 *9*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
619.7 *3*	†1.6 *3*	^{155}Tm(21.6 s)	226.8(†100), 531.7(†20), 88.1(†17)
619.8 *4*	0.191 *22*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
619.8 *1*	†0.75 *13*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
619.8 *3*	0.41 *4*	^{230}Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
619.9 *2*	1.13 *17*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
619.9 *3*	†3.9 *9*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
620.00 *7*	0.078 *9*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
620 *1*	0.031 *12*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
620 *1*	2.79 *80*	^{148}Ho(9.59 s)	1687.5(82.47), 660.8(58.94), 504.3(18.62)
620.0 *1*	0.52 *5*	^{226}Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)
• 620.0 *1*	8.0×10^{-7} *12*	^{230}Th(7.538×10^4 y)	67.67(0.376), 143.87(0.0486), 253.73(0.0111)
• 620.026 *35*	0.0023 *9*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
620.03 *18*	0.22 *3*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
• 620.04 *3*	0.90 *6*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 620.04 *20*	0.20 *4*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
620.09 *16*	0.35 *4*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
620.1 *1*	1.77 *3*	^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
• 620.1 *5*		^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
620.1 *5*	0.031 *6*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
620.1 *5*	0.81 *9*	^{212}Fr(20.0 m)	1273.8(46), 227.72(43), 1185.6(14.1)
620.11 *9*	7.6 *4*	^{86}Nb(88 s)	751.74(97.8), 914.81(78.1), 1003.24(37.4)
• 620.111 *17*	1.437 *14*	^{131}Ba(11.50 d)	496.326(47), 123.805(28.97), 216.078(19.66)
620.18 *4*	57 *3*	^{71}Zn(3.96 h)	386.28(93), 487.38(62), 511.56(28.4)
620.2 *1*	†19.2 *20*	^{104}Nb(0.92 s)	192.2(†100), 368.4(†20), 836.3(†18.4)
• 620.20 *5*	0.90 *10*	^{126}Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
620.20 *5*	1.54 *17*	^{126}Sb(19.15 m)	414.81(86), 666.331(86), 695.03(82)
620.2 *2*	0.19 *3*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
620.20 *3*	1.09 *10*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
620.2	†25	^{205}Rn(2.8 m)	264.9(†100), 464.5(†25), 675.0(†20)
620.24 *4*	96	^{148}Dy(3.1 m)	1247.2(1.4), 178.3(0.5), 950.8(0.39)
• 620.3 *2*	0.019 *3*	^{111}Ag(7.45 d)	342.118(7), 245.422(1.24), 96.73(0.20)
620.3 *2*	0.121 *9*	^{111}Ag(64.8 s)	245.422(0.50), 171.28(0.12), 752.7(0.043)
620.3 *4*	0.45 *8*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
620.3 *3*	0.049 *12*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
620.3 *1*	2.34 *12*	^{143}La(14.2 m)	643.75(1.55), 621.4(1.52), 798.14(1.18)
620.31 *20*	0.71 *10*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
• 620.360 *3*	2.787 *18*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
620.37 *5*	0.082 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
620.37 *5*	0.31 *13*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
620.4 *3*	0.0036	^{212}Bi(60.55 m)	39.858(1.091), 452.83(0.31), 288.07(0.31)
620.47 *3*	1.85 *11*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
• 620.48 *5*	5.76 *6*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
620.5 *3*	†2.4 *3*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
620.505 *19*	63 *3*	^{98}Y(2.0 s)	1223.0(80), 647.58(53), 1801.5(40)
• 620.52	0.0092 *5*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
• 620.590 *17*	0.007 *3*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
620.594 *16*	0.57 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
620.6 *2*	0.27 *4*	^{86}Zr(16.5 h)	242.80(96), 29.10(21.6), 612.00(5.7)
• 620.6 *2*	0.072 *7*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
620.6 *5*	†0.23 *9*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
620.6 *1*	0.94 *10*	^{242}Np(2.2 m)	735.93(5), 780.44(2.76), 1473.1(2.34)
620.61 *2*	0.51 *8*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
620.61 *2*	0.28 *8*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
620.635 *20*	0.097 *4*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 633.415(0.568)
620.7	0.071 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
620.7 *3*	23	^{170}Hf(16.01 h)	164.78(33), 120.17(19), 572.9(18)
620.7 *2*	0.32 *9*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
620.71 *30*	0.032	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
620.77 *14*	1.79 *10*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
620.8 *2*	†16.0 *12*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
620.8 *4*	0.122 *20*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
620.8 *4*	0.032 *5*	^{150}Eu(12.8 h)	333.971(4.0), 406.52(2.81), 1165.739(0.257)
620.8 *4*	0.048 *11*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
620.80 *8*	2.41 *21*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
620.8 *2*	2.1 *3*	^{196}Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
620.8 *2*	†0.60 *9*	^{196}Bi(240 s)	1049.21(†21.1), 371.93(†20.8), 689.00(†19.2)
620.9 *2*	0.39 *20*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
620.9 *2*	1.6 *3*	^{135}Pr(24 m)	296.12(24), 82.64(13.7), 213.45(13.0)
• 620.9 *2*	2.2×10^{-6} *3*	^{233}U(1.592×10^{5} y)	42.44(0.0862), 97.134(0.020), 54.699(0.0182)
620.94 *24*	0.31 *4*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
620.95 *4*	0.275 *14*	^{159}Ho(33.05 m)	121.012(36.2), 131.973(23.6), 309.594(17.2)
620.96 *10*	0.22 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
620.98 *18*	0.055 *11*	^{69}As(15.2 m)	232.69(11), 145.95(4.96), 86.78(3.44)
621.0		^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
621.0 *5*	†16 *4*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
621.0 *3*	0.13	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
621.0 *5*	0.08 *3*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 636.4(10.1)
621.02	0.41	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
621.03 *23*	0.089 *3*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
621.04 *10*	0.071 *10*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
621.1 *4*	1.3 *6*	^{102}Cd(5.5 m)	481.0(63), 1036.6(12.8), 505.1(9.6)
621.2 *3*	1.58 *20*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
621.2 *2*	†15 *3*	^{157}Yb(38.6 s)	230.92(†100), 340.7(†90), 241.7(†74)
621.25 *6*	0.57 *9*	^{204}At(9.2 m)	684.341(95), 516.318(90), 426.253(67.5)
621.26 *8*	0.0096 *13*	^{194}Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 621.26 *8*	0.60 *6*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
621.3 *9*	0.04 *3*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
621.3 *3*	0.792 *24*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
621.3 *3*	2.3 *8*	^{123}Ag(0.309 s)	263.87(35.9), 409.79(13.2), 591.30(8.2)
621.3 *5*	0.50 *22*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
621.3 *2*	0.036 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
621.4 *1*	1.52 *8*	^{143}La(14.2 m)	620.3(2.34), 643.75(1.55), 798.14(1.18)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 621.4 *5*	0.039 *10*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 621.40 *15*	0.043 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
• 621.4 *5*	†0.0037 *12*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
621.5 *8*	0.025 *12*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
621.5 *1*	0.301 *20*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
621.5	†16.2	^{144}Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
621.5 *10*	0.18 *4*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
621.5 *5*	†15	^{223}Rn(23.2 m)	591.8(†100), 635.2(†76), 416.0(†55)
621.542 *14*	0.538 *15*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
621.55 *7*	1.89 *11*	^{157}Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
621.56 *5*	0.110 *5*	^{89}Br(4.40 s)	1097.82(6.00), 997.93(4.26), 953.53(4.26)
621.6 *2*	0.30 *4*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
621.63 *19*	0.57 *9*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
621.65 *46*	0.048 *15*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
621.7 *2*	51 *3*	^{52}Fe(45.9 s)	929.5(100), 869.9(93), 2037.6(50)
621.7 *1*	1.96 *12*	^{94}Sr(75.3 s)	1427.7(94), 723.8(2.40), 703.9(2.13)
621.7 *3*	1.22 *13*	^{139}Nd(29.7 m)	405.12(7), 1074.2(2.5), 669.0(1.52)
621.7 *1*	†3.6 *4*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
621.7 *3*	3.1 *3*	^{176}Tm(1.9 m)	189.57(44.5), 1069.3(34), 381.8(21.8)
621.7 *2*	†2.8 *1*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
• 621.771 *24*	0.0258 *9*	^{99}Mo(65.94 h)	739.50(12.1), 181.063(6.08), 140.511(4.52)
621.790 *25*	10.6 *6*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
• 621.79 *8*	0.0053 *7*	^{145}Eu(5.93 d)	893.73(66), 653.512(15.0), 1658.53(14.9)
621.8 *5*	2.4 *4*	^{31}Al(644 ms)	2316.7(18), 1694.93(10.4), 752.42(5.2)
621.8	0.55 *24*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
621.8 *5*	0.28 *8*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
• 621.8 *5*	0.520 *21*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
621.8 *3*	0.048 *10*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 621.80	>0.00017	^{173}Lu(1.37 y)	272.105(21.2), 78.63(11.87), 100.724(5.24)
621.85 *2*	0.393 *25*	^{135}Ce(17.7 h)	265.56(41.8), 300.07(23.5), 606.76(18.8)
621.87 *20*		^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
621.87 *6*	0.182 *13*	^{249}Cm(64.15 m)	634.31(1.5), 560.45(0.84), 368.76(0.35)
621.874 *27*	8.0 *6*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
621.88 *9*	0.089 *7*	^{101}Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
621.9 *3*	0.47 *14*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
621.9 *4*	0.47 *4*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
621.9 *3*	†4.0 *6*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
621.9 *4*	2.7 *4*	^{186}Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
621.94 *3*	9.93 *12*	^{106}Rh(29.80 s)	511.842(20), 1050.39(1.56), 616.174(0.75)
621.94 *3*	0.316 *8*	^{106}Ag(23.96 m)	511.842(17.0), 873.48(0.199), 1050.39(0.167)
621.974 *19*	0.335 *13*	^{194}Ir(19.15 h)	328.455(13.1), 293.545(2.55), 645.157(1.17)
• 621.974 *19*	1.68 *18*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
• 621.98 *20*	0.025 *6*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
• 622.0 *4*	0.0059 *15*	^{111}Ag(7.45 d)	342.118(7), 245.422(1.24), 96.73(0.20)
622.0 *3*	0.25 *7*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
622.0 *5*	†8 *3*	^{177}Tm(85 s)	104.5(†11.1), 517.5(†22.2), 44.5(†10)
622.0 *2*	0.62 *6*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
622.01 *5*	0.85 *4*	^{141}Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
622.1 *2*	14.5 *4*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
622.1 *2*	2.3 *8*	^{145}Ho(2.4 s)	339.8(15), 312.9(14.3), 334.1(13.5)
622.2 *1*	8.78 *18*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
622.2 *4*	0.101 *20*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
622.3 *2*	0.098 *20*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
622.3 *2*	†1.4	^{96}Rb(0.199 s)	352.02(†700), 204.02(†200), 680.7(†121)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
622.3 *3*	10.4 *10*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
622.3 *4*	0.43 *14*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
622.340 *19*	3.19 *15*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
622.4 *2*	†74 *3*	^{113}I(6.6 s)	462.5(†100), 351.5(†43), 567.4(†36)
622.47 *11*	0.172 *20*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
622.5 *5*	2.65 *21*	^{95}Rh(5.02 m)	941.6(72), 1352.0(20.8), 677.6(5.80)
622.5 *5*	0.47 *17*	^{97}Sr(426 ms)	1905.0(25), 953.8(21.4), 652.2(11.4)
622.5 *2*	1.5 *3*	^{100}Nb(1.5 s)	535.60(45.7), 528.24(9.1), 159.547(8.8)
622.5 *2*	†4.2 *4*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
622.50 *15*	1.32 *18*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
622.52 *10*	0.89 *3*	^{162}Tb(7.60 m)	260.070(37.2), 807.53(42.8), 888.20(38.7)
622.53 *8*	0.19	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
622.6 *2*	2.0 *7*	^{103}Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
• 622.605 *22*	0.161 *12*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
622.7	0.7	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
• 622.705 *35*	0.0131 *8*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 622.75 *20*	0.0246 *18*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
622.751 *13*	0.97 *7*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
622.76 *10*	†0.84 *5*	^{153}Pm(5.4 m)	35.842(†100), 127.298(†75), 28.309(†34.6)
622.8 *4*	0.27 *5*	^{85}Zr(7.86 m)	454.20(45), 416.3(27.0), 1198.4(4.8)
622.8 *2*	0.066 *12*	^{142}Ba(10.6 m)	255.300(20.5), 1204.3(14.23), 895.2(13.9)
622.8 *2*	†22.2 *15*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
622.8 *2*	0.22 *3*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
622.83 *23*	0.427 *20*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
622.9 *4*	0.18 *7*	^{139}Sm(2.57 m)	273.7(37), 306.7(28.5), 596.3(8.0)
622.90 *15*	0.22 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
622.97 *10*	1.80 *14*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
623.0 *3*	0.17 *6*	^{75}Kr(4.3 m)	132.43(67), 154.66(20.8), 153.15(8.0)
623	>0.019	^{90}Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
623.0 *5*	†1.5 *4*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
623.0 *8*	0.0013 *4*	^{251}Fm(5.30 h)	425.4(0.95), 480.4(0.392), 358.3(0.315)
• 623.026 *15*	0.166 *14*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
623.04 *30*	0.017 *11*	^{130}I(12.36 h)	536.09(99), 668.54(96), 739.48(82)
623.10 *10*	0.5 *1*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 623.1 *3*	0.012 *3*	^{241}Cm(32.8 d)	471.805(71), 430.634(4.06), 132.413(3.86)
623.11 *17*	0.18 *3*	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
623.13 *6*	0.16 *6*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
623.15 *10*	0.07 *4*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
623.2 *2*	8.0×10^{-5} *4*	^{104}Rh(4.34 m)	555.796(0.13), 767.72(0.0065), 1237.2(0.0042)
623.2 *2*	2.5 *5*	^{104}Ag(69.2 m)	555.796(92.6), 767.72(65.7), 941.7(25.0)
623.20 *9*	0.276 *17*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
623.20 *9*	0.40 *12*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
623.27 *20*	0.011 *3*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
623.27 *20*	0.0088 *19*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
• 623.29 *15*	0.0057 *19*	^{95}Tc(61 d)	204.117(63.25), 582.082(29.96), 835.149(26.63)
623.3 *2*	0.28 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
623.38 *23*	†1.3 *3*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
• 623.393 *27*	0.195 *6*	^{165}Tm(30.06 h)	242.917(35.5), 47.155(16.9), 297.369(12.71)
623.4 *6*	0.007 *4*	^{45}K(17.3 m)	174.276(74.4), 1705.6(53), 2353.6(14.12)
• 623.4	0.008 *4*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
623.48 *5*	†24.2 *15*	^{173}W(7.5 m)	457.68(†100), 130.19(†31.5), 174.8(†29.1)
623.5 *8*	3.2 *3*	^{31}Na(17.0 ms)	2243.9(10.4), 171.1(4.8), 2022.2(3.8)
623.5 *3*	0.082 *20*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
623.5 *2*	†6	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
623.502 *6*	0.0238 *6*	^{145}Pr(5.984 h)	748.278(0.5250), 675.795(0.514), 72.500(0.261)
623.6 *2*	0.77 *5*	^{101}Ag(11.1 m)	261.0(53), 588.0(10.0), 667.3(9.8)
623.6 *4*	2.17 *6*	^{109}Sn(18.0 m)	1099.4(30), 649.90(28.0), 1321.3(11.9)
623.6	†19	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 635.18(†88)
623.64 *16*	0.052 *6*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
623.7 *1*	1.35 *6*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
623.70 *20*	0.066 *5*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
623.7 *3*	5.5 *3*	^{109}In(4.2 h)	203.5(74), 1148.9(4.3), 426.25(4.12)
623.72 *29*	1.79 *20*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
• 623.75 *8*	0.26 *3*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
• 623.8 *7*	†0.024 *3*	^{101}Rh(4.34 d)	306.85(†115), 545.06(†6.1), 127.23(†0.85)
623.8 *5*	0.31 *6*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
623.8 *5*	0.00051 *12*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
• 623.8 *5*	†0.0098 *24*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
623.8 *5*	0.075 *13*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
623.9 *3*	0.075 *25*	^{155}Ho(48 m)	240.19(12.5), 136.30(5.00), 45.38(5)
623.9 *2*	0.0023 *4*	^{188}Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
623.9 *2*	†5.0 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
623.93	0.17	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
624.0 *2*	1.0 *3*	^{102}Zr(2.9 s)	599.60(13.9), 535.30(10.6), 64.50(8.9)
624.0 *10*	0.017 *4*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
624.0 *1*	0.019 *1*	^{113}Ag(5.37 h)	298.58(10), 258.8(1.64), 316.3(1.343)
• 624 *1*	0.066 *22*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
624.0 *3*	0.83 *18*	^{164}Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
624 *2*	1.4 *3*	^{168}Lu(6.7 m)	198.82(28), 979.22(20), 896.12(15)
624.00 *4*	0.007	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 624.08 *6*	1.41 *7*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
624.10 *20*	0.9 *3*	^{102}Nb(4.3 s)	296.611(79), 1633.10(41), 551.54(30)
624.1	3 *1*	^{150}Ho(26 s)	653.3(100), 803.4(100), 393.9(93)
624.2 *1*	0.84 *6*	^{75}Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
624.2 *9*	0.088 *17*	^{89}Nb(1.9 h)	1627.20(3.4), 1833.46(3.16), 3092.7(3.0)
624.2 *2*	†2.9 *9*	^{171}Hf(12.1 h)	122.0(†100), 662.2(†83), 347.18(†47)
624.2 *3*	†2.5 *3*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
624.2 *5*	0.064 *6*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
624.2 *1*	0.35 *3*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
624.3 *3*	0.014 *3*	^{63}Zn(38.47 m)	669.62(8), 962.06(6.5), 1412.08(0.75)
624.3 *2*	†2	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
624.3 *7*	0.095 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
• 624.312 *9*	0.0282 *6*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
624.32 *6*	0.74 *5*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
624.34 *5*	0.097 *3*	^{129}Te(69.6 m)	27.81(16.3), 459.60(7.70), 487.39(1.42)
624.4 *5*	1.01 *9*	^{110}Sb(23.0 s)	1211.87(92), 985.03(31.2), 1243.6(13.4)
624.4 *3*	†0.7	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
624.4	†16.3 *6*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
624.4 *1*	0.148 *16*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
• 624.4 *1*	0.045 *11*	^{230}Pa(17.4 d)	951.95(1.65), 918.48(8.2), 454.95(6.27)
• 624.4 *1*	0.82×10^{-6}	^{234}U(2.455×10^{5} y)	53.20(0.123), 120.90(0.0342), 454.95(0.000025)
624.4 *4*	0.22 *3*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
624.5 *1*	33 *3*	^{159}Er(36 m)	649.1(23.4), 205.92(9.7), 165.9(5.0)
624.5 *3*	†1.8 *2*	^{182}Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
624.54 *12*	0.19 *4*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
624.57 *5*	0.0833 *25*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
624.6 *4*	0.14	^{154}Pm(1.73 m)	2057.76(17.1), 1393.9(14.4), 81.99(12.6)
624.7 *1*	0.00113 *3*	^{144}Pr(17.28 m)	696.510(1.3), 2185.662(0.694), 1489.160(0.278)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
624.7 *4*	0.24 *13*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
624.7 *3*	†2.65 *18*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
• 624.75 *14*	0.081 *10*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
• 624.754 *5*	4.37×10^{-7} *20*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
624.76 *9*	0.182 *4*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
624.78 *7*	1.03 *7*	^{205}Po(1.66 h)	872.39(37), 1001.21(28.8), 849.83(25.5)
• 624.78 *2*	$>2.0\times10^{-8}$	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
624.8 *1*	†100	^{151}Yb(1.6 s)	1050.2(†100), 1245.6(†100), 1332.2(†100)
624.85 *88*	0.04 *3*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
• 624.885 *4*	0.00490 *18*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
624.9 *3*	8.2 *12*	^{98}Cd(9.2 s)	347.18(78), 1176.1(66.3), 107.28(43.7)
624.9 *3*	0.151 *23*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
624.91 *10*	0.00359 *22*	^{107}Cd(6.50 h)	93.124(1.45), 828.93(0.17), 796.462(0.0665)
624.98 *13*	†14 *3*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
625.0 *3*	2.6 *3*	^{69}Se(27.4 s)	97.98(66), 66.4(24.8), 691.8(16.6)
625.0 *5*	0.08 *3*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
625.0		^{107}Sn(2.90 m)	1129.2(†100), 678.5(†100), 1540.6(†30)
625		^{126}La(54 s)	460, 340, 256.10
625		^{154}Tm(3.30 s)	542.0, 601.3, 560.0
625.05 *5*	0.059 *14*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
625.1 *2*	2.98 *14*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
625.1 *5*	†35 *3*	^{202}Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)
• 625.18 *10*	4.7 *3*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
625.2 *4*	1.05 *21*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
625.2 *7*	>0.11	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
625.23 *8*	1.18 *8*	^{143}Gd(112 s)	271.94(84), 588.00(15.7), 798.89(10.7)
• 625.257 *6*	0.320 *3*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
625.257 *6*	0.23 *4*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
625.257 *6*	0.163 *7*	^{154}Tb(21.5 h)	123.071(26), 1274.436(10.5), 2187.10(9.9)
625.257 *6*		^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
625.27 *20*	0.6 *1*	^{156}Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
625.29 *46*	0.41 *12*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
625.30 *20*	1.13 *4*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
625.3 *4*	1.04 *20*	^{96}Pd(122 s)	124.70(65), 762.3(50.0), 499.7(17.9)
625.3 *3*	0.094 *22*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
625.3 *6*	0.66 *22*	^{166}Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
625.3 *3*	2.86 *18*	^{186}Tl(27.5 s)	405.43(92), 402.72(45.9), 356.84(29.3)
625.3 *2*	0.129 *13*	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
625.4	3.59 *9*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
625.4 *8*	0.08 *6*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
625.4 *2*	82 *8*	^{190}Tl(3.7 m)	416.4(91), 731.1(37), 839.7(24)
625.4 *2*	11.1 *24*	^{190}Tl(2.6 m)	416.4(79), 683.5(8.7), 1099.9(7.1)
625.5 *4*	0.170 *25*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
625.5 *3*	7.0 *9*	^{114}Rh(1.85 s)	332.9(87), 519.8(48.4), 618.7(31)
625.5 *7*	0.050 *12*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
625.511 *19*	1.089 *25*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
• 625.568 *20*	0.310 *7*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
625.6 *5*	0.10 *3*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
625.6 *3*	2.4 *4*	^{131}Sb(23.03 m)	943.4(47), 933.1(26.1), 642.30(23)
625.6 *2*	0.034 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
625.6 *2*	0.014 *4*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
625.6 *1*	0.180 *11*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
625.605 *24*	0.040 *5*	^{61}Cu(3.333 h)	282.956(12.2), 656.008(10.77), 67.412(4.23)
625.63 *4*	0.26 *4*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
625.66 *7*	†142 *15*	^{234}Pa(1.17 m)	1001.03(†837000), 766.38(†294000), 742.81(†80000)
• 625.66 *7*	0.076 *7*	^{234}Np(4.4 d)	1558.31(18.72), 1527.21(11.2), 1601.80(9.1)
625.7 *3*	0.018 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
625.7 *4*	0.098 *24*	^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
625.7 *3*	0.18 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
625.76 *13*	0.09 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
625.9 *3*	†28 *3*	^{117}Pd(4.3 s)	247.5(†100), 649.9(†41), 323.9(†37)
625.9 *2*	†2.9 *4*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
625.918 *13*	0.0300 *12*	^{173}Hf(23.6 h)	123.672(83), 296.974(33.9), 139.634(12.7)
• 625.95 *4*	0.311 *13*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
626.0 *3*	2.16 *19*	^{104}Cd(57.7 m)	83.7(47), 709.6(19.5), 559.1(6.3)
626.0 *2*	3.82 *22*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
626.0 *4*	†2.6 *10*	^{155}Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
• 626	0.022 *4*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
626.0 *10*	0.57 *11*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
626.0 *4*	†1.8 *4*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
626.0 *1*	0.90 *14*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
626.1 *3*	3.9 *5*	^{112}Rh(6.8 s)	348.70(87), 560.5(49), 1098.6(39)
626.1	†1.5	^{148}Cs(158 ms)	141.7(†100), 687.2(†23), 545.5(†20)
626.1 *2*	0.017 *3*	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
626.11 *4*	0.0234 *14*	^{250}Bk(3.217 h)	989.12(45), 1031.85(35.6), 1028.65(4.91)
626.11 *4*	1.18 *10*	^{250}Es(2.22 h)	989.12(13.3), 1031.85(10.6), 828.82(5.5)
626.17 *10*	†0.9 *3*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
626.20 *10*	0.60 *4*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
626.21 *9*	1.74 *6*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
626.22 *10*	0.15 *8*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 626.259 *10*	0.214 *13*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
626.259 *10*	1.47 *10*	^{110}In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
• 626.28 *10*	0.277 *8*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
626.3 *1*	0.022 *3*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
626.36 *6*	0.224 *19*	^{81}Ga(1.221 s)	216.47(37.4), 828.26(22.1), 711.18(17.6)
626.37 *20*	0.6 *1*	^{156}Pm(26.70 s)	173.75(52.0), 1147.84(20.5), 117.42(13.8)
626.40 *5*	5.6 *6*	^{77}Zn(2.08 s)	189.49(28.1), 473.94(19.7), 1832.0(12.4)
626.4 *1*	0.090 *11*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
626.4 *1*	0.37 *3*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
626.4 *2*	13	^{119}Ag(2.1 s)	366.2(12.1), 399.1(10.9), 213.4(8.8)
626.4 *5*	0.10 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
626.4 *6*	0.0040	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 626.422 *10*	0.08 *4*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
626.45 *13*	0.84 *11*	^{80}Ge(29.5 s)	265.36(27.0), 110.4(6.5), 1564.3(4.9)
626.49 *8*	0.285 *19*	^{90}Kr(32.32 s)	1118.69(39.0), 121.82(35.5), 539.49(30.8)
626.5 *4*	0.20 *5*	^{117}Cs(8.4 s)	204.8(15.0), 29.7(9.9), 205.6(6.8)
626.537 *17*	0.059 *22*	^{180}Re(2.44 m)	902.795(90), 103.557(22.2), 825.357(9.9)
626.56 *27*	0.7 *3*	^{54}V(49.8 s)	834.848(97.1), 989.01(80.1), 2259.35(45.6)
626.56 *9*	†3.61 *25*	^{184}Ir(3.09 h)	263.97(†100), 119.80(†45), 390.38(†38)
626.58 *6*	2.92 *11*	^{143}Cs(1.78 s)	195.554(13), 232.421(8.32), 306.424(6.80)
626.6 *3*	0.050 *13*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
626.63 *9*	0.44 *3*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
626.69 *12*	3.2 *3*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
626.7 *3*	0.146 *10*	^{118}I(13.7 m)	605.71(86.0), 545.12(10.9), 600.71(10.2)
626.7 *3*	0.114 *23*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
626.7 *3*	2.8 *3*	^{130}Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
626.7 *3*	1.0 *3*	^{151}Pr(18.90 s)	880.19(13), 189.057(11.8), 484.501(11.3)
• 626.70 *3*	0.585 *6*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
626.73	0.36	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
626.77 *3*	17.8 *5*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 1178.66(5.16)
626.77 *4*	1.91 *11*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
626.8 *1*	0.043 *3*	^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
626.8 *3*	†381 *95*	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
626.81 *25*	0.30 *7*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
626.89 *11*	0.95 *17*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
626.9 *2*	0.23 *5*	^{236}Pa(9.1 m)	642.35(37.0), 687.59(9.9), 1762.7(6.0)
626.94 *9*	0.11 *3*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
627.0 *4*	0.28 *7*	^{99}Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
627.0 *1*	0.39 *3*	^{101}Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
627.0 *4*	1.28 *23*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
627.0 *2*	0.22 *5*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
627.0 *5*	0.043 *11*	^{115}Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
627	0.07	^{148}Dy(3.1 m)	620.24(96), 1247.2(1.4), 178.3(0.5)
• 627.041 *20*	0.836 *14*	^{171}Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
627.08 *3*	2.35 *9*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
627.10 *7*	10.3 *6*	^{63}Ga(32.4 s)	637.04(11), 192.94(5.7), 650.14(4.9)
627.1 *3*	5.1 *5*	^{130}Sb(6.3 m)	839.49(100), 793.53(86), 182.36(41)
• 627.18 *20*	†5.6×10^3 *17*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
627.2 *2*	0.56 *6*	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
627.2 *1*	1.50 *9*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
627.21 *20*	0.69 *7*	^{86}Y(48 m)	1153.01(0.69), 1076.64(0.69), 98.68
627.23 *20*	0.014 *3*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
627.24 *3*	1.78 *9*	^{139}Cs(9.27 m)	1283.23(8.3), 1420.66(0.91), 2110.91(0.76)
627.26 *15*	0.24	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
627.3 *2*	0.14 *10*	^{114}Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
627.3 *2*	0.98 *10*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
627.4 *19*	†0.8 *1*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
627.40 *11*	1.0 *3*	^{182}Hf(61.5 m)	942.80(18.8), 799.64(9.4), 114.3152(6.2)
627.44 *15*	0.228 *12*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
627.45 *30*	0.206 *21*	^{140}Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
627.5 *5*	>0.18	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
627.5 *3*	0.27 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
627.5 *4*	0.30 *4*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
627.6 *6*	†1.0	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
627.6 *7*	0.51 *6*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
627.7 *3*	0.23 *5*	^{75}Kr(4.3 m)	132.43(67), 154.66(20.8), 153.15(8.0)
627.7 *3*	0.180 *18*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
627.7 *3*	0.063 *17*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
627.7	†25	^{163}Ta(10.6 s)	396.0(†100), 451.1(†70), 448.7(†60)
627.7 *3*	0.064 *20*	^{179}Re(19.5 m)	430.221(28), 289.968(26.9), 1680.244(13.0)
627.7 *1*	0.20 *5*	^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
627.72 *10*	32.6 *10*	^{86}Y(14.74 h)	1076.64(83), 1153.01(30.5), 777.35(22.4)
627.72 *20*	0.014	^{119}Te(16.03 h)	644.01(84), 699.85(10.1), 1749.65(3.95)
627.79 *16*	0.13 *4*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
627.8 *4*	0.0008 *3*	^{62}Zn(9.186 h)	596.56(26), 40.84(25.5), 548.35(15.3)
627.8 *3*	†54 *9*	^{140}Tb(2.4 s)	328.6(†104), 507.6
627.84 *10*	†0.33 *3*	^{153}Pm(5.4 m)	35.842(†100), 127.298(†75), 28.309(†34.6)
627.87 *18*	0.33 *5*	^{197}Pb(43 m)	385.85(74), 387.72(25.1), 222.45(24.6)
• 627.884 *85*	0.0017 *4*	^{129}Cs(32.06 h)	371.918(30.60), 411.490(22.31), 548.945(3.40)
627.9 *3*	1.99 *22*	^{99}Zr(2.1 s)	469.140(55), 546.13(48.6), 593.990(27.4)
627.9 *3*	†9.7 *15*	^{109}Tc(0.87 s)	194.6(†100), 128.7(†51), 96.2(†48)
627.9 *10*	0.014	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
627.9 *5*	†0.66 *19*	^{164}Hf(111 s)	122.1(†100), 153.3(†47), 313.7(†22)
627.95 *5*	7.0 *4*	^{75}Zn(10.2 s)	228.67(28.9), 432.29(20.2), 155.94(17.2)
627.960 *30*	2.20 *13*	^{134}I(52.6 m)	847.025(95.4), 884.090(64.9), 1072.547(15.0)
628.0 *2*	†13 *2*	^{113}I(6.6 s)	462.5(†100), 622.4(†74), 351.5(†43)
628.0 *3*	†0.31 *5*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
628.0	0.7	^{144}Tb(4.25 s)	743.0(12), 1001.6(7), 959.36(4.7)
628.0 *3*	0.033 *21*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
628.03 *6*	6.7 *6*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
628.05 *4*	†35.3 *23*	^{102}Tc(4.35 m)	475.070(†115), 631.28(†21.3), 1615.3(†20.8)
628.05 *4*	0.78 *8*	^{102}Tc(5.28 s)	475.070(7), 468.59(0.88), 865.5(0.87)
• 628.05 *4*	8.3 *4*	^{102}Rh(2.9 y)	475.070(95), 631.28(55.9), 697.49(43.9)
• 628.05 *4*	†4.6 *4*	^{102}Rh(207 d)	475.070(†47), 1103.16(†2.99), 468.59(†2.99)
628.1 *2*	0.074 *25*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
628.1 *6*	0.016 *5*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
628.1 *3*	0.16 *3*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
628.1 *1*	0.24 *4*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
628.14 *25*	1.34	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
628.2 *2*	2.6 *4*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
628.2 *2*	0.0118 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
628.2 *5*	†3.8×10^{2}	^{157}Ho(12.6 m)	279.97(†47600), 341.16(†37000), 193.41(†15200)
628.26 *22*	0.00158 *25*	^{123}I(13.27 h)	158.97(83), 528.96(1.39), 440.02(0.428)
• 628.30 *20*	0.008 *4*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
628.37 *4*	2.70 *13*	^{174}Tm(5.4 m)	366.526(92), 992.128(87), 272.918(86)
• 628.37 *4*	0.0145 *17*	^{174}Lu(142 d)	272.918(0.550), 992.128(0.546), 176.645(0.470)
628.4 *3*	0.74 *14*	^{91}Tc(3.14 m)	2450.90(13.5), 1639.90(9.2), 1605.20(7.77)
628.4 *2*	0.079 *18*	^{149}Tb(4.118 h)	352.24(29.43), 164.98(26.4), 388.57(18.37)
• 628.4 *3*	0.75 *9*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
628.402 *24*	0.164 *5*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
628.47 *12*	0.29 *4*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
628.5 *2*	0.209 *17*	^{249}Es(102.2 m)	379.5(40.4), 813.2(9.2), 375.1(3.3)
628.55 *25*	0.067 *8*	^{193}Au(17.65 h)	186.17(10.1), 255.57(6.7), 268.22(3.9)
628.6 *2*	16.7 *5*	^{61}Mn(0.71 s)	206.8(8.2), 391.0(1.1), 422.0(0.68)
628.6 *1*	†1.87 *17*	^{123}La(17 s)	92.5(†100), 937.3(†43), 153.6(†43)
• 628.6 *2*	8.4×10^{-5} *19*	^{127}Te(109 d)	57.61(0.50), 658.89(0.0122), 593.31(0.00225)
628.6 *1*	2.66 *8*	^{141}Sm(22.6 m)	196.88(74), 431.6(40.4), 777.6(20.3)
628.6 *1*	3.6 *3*	^{206}Fr(15.9 s)	575.3(12), 559.0(8.19), 161.4(1.2)
628.6 *1*	1.10 *23*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
628.63 *26*	3.22 *21*	^{116}Te(2.49 h)	93.70(31.4), 102.97(1.95), 637.9(0.755)
628.7 *2*	4.1 *2*	^{142}Eu(1.22 m)	768.1(100), 1023.3(92.0), 556.6(86.6)
628.704 *28*	0.099 *15*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
628.75 *9*	31 *2*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
628.759 *5*	0.025 *6*	^{200}Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
• 628.759 *5*	1.00 *8*	^{200}Tl(26.1 h)	367.943(87), 1205.717(29.9), 579.298(13.8)
628.8 *7*	0.25 *9*	^{74}Kr(11.50 m)	89.65(31), 203.0(18.0), 296.67(9.9)
628.8 *2*	0.91 *23*	^{75}Rb(19.0 s)	178.98(<63), 178.97(>51), 187.21(8.7)
628.8 *3*	0.60 *7*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
628.8 *1*	0.238 *25*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
628.86 *49*	0.062 *10*	^{174}Ta(1.05 h)	206.50(58), 91.00(16.0), 1205.92(4.9)
628.88 *7*	5.6 *4*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 520.44(4.41)
628.9 *4*	†7	^{135}Pm(49 s)	198.5(†100), 207.2(†70), 463.5(†62)
628.9 *3*	2.8 *4*	^{169}Ho(4.7 m)	788.4(21.2), 853.0(11.2), 760.8(10)
628.92 *6*	0.13 *4*	^{95}Ru(1.643 h)	336.43(70.2), 1096.76(21.0), 626.77(17.8)
629.0 *1*	0.33 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
629.0 *10*	2.7 *5*	^{246}Am(39 m)	679.0(53), 205.0(36), 152.9(25)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 629.10 *10*		^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
629.1 *4*	1.6 *1*	^{196}Os(34.9 m)	407.9(5.9), 126.2(5.3), 315.4(2.5)
629.1 *2*	24.0 *12*	^{201}Bi(108 m)	936.2(11.3), 1014.1(10.7), 786.4(9.5)
629.2 *2*	†100	^{94}Kr(0.20 s)	764.5(†71), 219.466(†67.4), 358.8(†39.4)
629.2 *4*	0.017 *4*	^{112}Ag(3.130 h)	617.27(43), 1387.67(5.4), 606.49(3.1)
629.2 *2*	†0.9 *3*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
629.2 *1*	1.33 *20*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
629.23 *3*	0.099 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
629.3 *4*	†100 *7*	^{183}Pt(43 s)	316.7(†53), 328.8(†36), 312.6(†28)
629.32 *7*	7.0 *4*	^{166}Lu(2.65 m)	228.12(77.3), 337.50(41), 367.95(31.4)
629.4 *4*	2.3 *3*	^{69}Ni(11.4 s)	1871.1(40.9), 679.7(39.7), 1213.0(39.3)
629.4 *3*	0.50 *5*	^{100}Cd(49.1 s)	936.55(66), 139.71(6.7), 582.5(6.3)
629.40 *5*	0.046 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
629.4 *1*	0.35 *5*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
629.5	†32.4	^{144}Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 347.1(†27.9)
629.6 *4*	0.013 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
629.64 *7*	2.7 *3*	^{187}Pt(2.35 h)	106.46(9), 201.52(6.4), 110.04(5.7)
629.7 *8*	†150 *69*	^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)
• 629.70 *4*	0.360 *16*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
629.74 *5*	0.163 *15*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
629.75 *20*	0.34 *3*	^{89}Kr(3.15 m)	220.948(20.1), 586.03(16.6), 904.27(7.2)
629.755 *73*	0.111 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
629.85 *7*	1.34 *3*	^{207}Po(5.80 h)	992.33(59.3), 742.64(28.2), 911.79(16.95)
629.89 *10*	†6.9 *4*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
629.9 *6*	0.073 *22*	^{109}In(4.2 h)	203.5(74), 623.7(5.5), 1148.9(4.3)
629.9 *2*	0.0152 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
629.9 *3*	0.62 *7*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
629.95 *3*	24.8 *5*	^{72}Ga(14.10 h)	834.01(96), 2201.69(25.9), 2507.82(12.78)
• 629.95 *3*	7.92 *14*	^{72}As(26.0 h)	834.01(80), 1463.95(1.107), 1050.73(0.984)
629.95 *20*		^{118}Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
• 629.987 *8*	89	^{148}Pm(41.29 d)	550.284(94.5), 725.673(32.7), 1013.808(20.20)
• 629.987 *8*	71.9 *16*	^{148}Eu(54.5 d)	550.284(98.5), 611.293(20.5), 553.231(12.9)
630.0 *1*	0.44 *18*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
630 *1*	†24 *3*	^{117}Pd(4.3 s)	247.5(†100), 649.9(†41), 323.9(†37)
630.1 *2*	1.13 *18*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
630.102 *14*	2.7 *3*	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
630.102		^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
630.14 *7*	2.22 *13*	^{91}Kr(8.57 s)	108.788(43.5), 506.592(19.1), 612.87(7.7)
630.19 *2*	13.3 *4*	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
• 630.19 *2*	0.95 *3*	^{132}Cs(6.479 d)	667.718(98), 505.79(0.73), 1317.927(0.585)
630.2 *3*	1.6 *3*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
630.2 *2*	0.7	^{149}Dy(0.490 s)	361.4(0.8), 290.7(0.8), 786.6(0.8)
630.2 *2*	0.17 *7*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
630.237 *19*	0.189 *3*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
630.24 *10*	†1.25 *7*	^{153}Pm(5.4 m)	35.842(†100), 127.298(†75), 28.309(†34.6)
630.3 *3*	0.069 *15*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
630.3 *3*	0.9 *4*	^{104}Tc(18.3 m)	358.0(89), 530.5(15.6), 535.1(14.7)
630.3 *3*	0.0010 *4*	^{104}Rh(42.3 s)	358.0(0.0160)
630.3	0.99	^{149}Ho(21.1 s)	1090.7(74.8), 1073.2(6.37), 1583.6(4.48)
630.3 *2*	†1.4 *4*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
630.3 *7*	†0.18 *9*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
630.3 *7*	0.09 *4*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
630.3 *3*	0.20 *3*	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
630.3 *1*	0.68 *3*	^{209}At(5.41 h)	545.0(91), 781.9(83.5), 790.2(63.5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 630.33 *26*	0.000105 *11*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
• 630.354 *14*	0.0230 *25*	^{186}Re(90.64 h)	137.155(8.22), 767.508(0.0255), 333.4(0.000058)
630.354 *14*	4.42 *19*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
630.354 *14*	18.0 *14*	^{186}Ir(2.0 h)	137.155(27), 767.508(21.2), 773.276(13.5)
630.37 *13*	0.043 *9*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
630.37 *16*	†13 *1*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
630.4		^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
630.4 *3*	13.6 *11*	^{168}Dy(8.7 m)	192.5(32.8), 487.0(22.5), 443.3(15.5)
630.5 *2*	0.06	^{140}Sm(14.82 m)	225.5(>10), 225.4(10), 140.0(5.0)
630.5 *3*	†3.2	^{149}Tb(4.16 m)	795.9(†111), 651(†37), 164.98(†8.3)
630.5 *2*		^{149}Tm(0.9 s)	796.2(18), 158.8(12.3), 416.7(11)
630.5 *1*	†2.50 *25*	^{171}Ta(23.3 m)	49.6(†100), 506.4(†54), 501.8(†22.6)
630.5 *6*	†11.0 *20*	^{172}W(6.6 m)	38.9(†100), 423.3(†44), 89.8(†33.0)
630.58 *3*	0.140 *5*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
630.58 *14*	3.3 *3*	^{195}Pb(15.0 m)	383.64(106.9), 394.21(44), 878.40(24.2)
630.6 *3*	0.291 *23*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
• 630.60 *5*	0.0376 *19*	^{110}Ag(249.79 d)	657.7622(94.0), 884.685(72.2), 937.493(34.13)
630.6 *3*	†1.0 *2*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
630.7 *2*		^{130}Pr(40.0 s)	951.9, 499.0, 1405
630.7 *2*	11	^{136}Te(17.5 s)	2077.9(22), 333.99(19), 578.75(18)
630.7 *2*		^{137}Te(2.49 s)	738.2, 578.75, 333.99
630.7 *2*	0.005 *1*	^{171}Er(7.516 h)	308.31(64.4), 295.901(28.9), 111.621(20.5)
• 630.706 *17*	0.438 *19*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
630.80 *30*	0.038 *14*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
630.8 *6*	0.14 *7*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
630.8 *3*	0.19	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
630.83 *37*	0.46 *7*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
630.85 *15*	0.06	^{183}Au(42.0 s)	161.18(9.4), 214.13(5.9), 313.08(5.0)
• 630.9 *3*	0.030 *6*	^{83}Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
630.9 *5*	†3.5	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
630.9 *3*	†2.8 *4*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
630.91 *13*	18 *3*	^{190}Re(3.1 m)	186.718(48.4), 557.972(28.2), 223.811(26.0)
630.91 *13*	0.44 *6*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
• 630.91 *13*	2.9 *3*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
630.97 *16*	0.19 *3*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
630.97 *1*	0.308 *20*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
631		^{92}Br(0.343 s)	769(†100), 1446(†10), 1035(†6)
631.0 *3*	9.4 *10*	^{98}Rb(96 ms)	144.224(73), 289.4(68), 3010.5(23.4)
631.0 *3*	0.76 *22*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
631.0 *3*	1.6 *3*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
631.0 *2*	†2.12 *21*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
• 631	0.84 *23*	^{190}Ir(11.78 d)	186.718(52.4), 605.24(39.9), 518.55(34.0)
631.023 *4*	0.017 *5*	^{155}Sm(22.3 m)	104.3346(74.6), 245.771(3.7), 141.4428(1.98)
• 631.05 *2*	0.1315 *24*	^{171}Lu(8.24 d)	739.78(47.8), 19.394(13.7), 667.404(11.04)
631.09 *3*	0.07	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
• 631.09 *3*	0.00034	^{243}Am(7370 y)	74.664(68), 43.533(5.93), 117.84(0.57)
631.1 *3*	1.04 *13*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
631.1 *5*	0.021	^{182}Os(22.10 h)	510.056(52), 180.230(33.5), 263.285(6.71)
631.2 *15*		^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
631.2 *4*	0.017 *6*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
631.22 *9*	0.464 *23*	^{83}Se(70.1 s)	1030.86(21.2), 356.687(18), 987.96(16.1)
631.22 *18*	†12.1 *23*	^{189}Au(28.7 m)	713.17(†100), 812.68(†63), 447.65(†55)
631.26 *19*	0.24 *8*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)

Energy-ordered Decay γ-ray Tables from the *Table of Isotopes*

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
631.28 *5*	†21.3 *11*	^{102}Tc(4.35 m)	475.070(†115), 628.05(†35.3), 1615.3(†20.8)
• 631.28 *5*	55.9 *20*	^{102}Rh(2.9 y)	475.070(95), 697.49(43.9), 766.84(33.9)
• 631.28 *5*	†0.10 *3*	^{102}Rh(207 d)	475.070(†47), 628.05(†4.6), 1103.16(†2.99)
631.3 *1*	0.554 *10*	^{91}Sr(9.63 h)	1024.3(33), 749.8(23.61), 652.9(8.0)
631.3 *4*	0.126 *13*	^{121}Xe(40.1 m)	252.7(13), 132.8(10.9), 445.2(7.7)
631.3 *3*	†0.38 *5*	^{129}Ba(2.17 h)	182.30(†100), 1459.1(†50.0), 202.38(†33.7)
631.3 *2*	†10	^{134}Pm(24 s)	294.2(†100), 494.7(†60), 459.3(†15)
• 631.3 *5*	0.32 *9*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 634.07(37)
631.3 *4*	0.70 *9*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
631.38 *6*	0.0134 *7*	^{137}Ce(9.0 h)	447.15(1.8), 10.6(0.8), 436.59(0.265)
631.4 *2*	0.047 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
631.45 *10*	13.9 *7*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 569.73(5.7)
631.480 *13*	0.420 *24*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 641.380(10.0)
• 631.5 *3*	0.006	^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
• 631.52 *15*	0.20 *3*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
631.6 *7*	0.54 *12*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
631.6 *1*	2.9 *3*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
631.62 *10*	0.0718 *19*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
631.63 *9*	8	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
631.70 *15*	0.041 *5*	^{101}Tc(14.22 m)	306.85(88), 545.06(6.0), 127.23(2.86)
631.70 *6*	0.64 *4*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
631.7 *3*	†0.3 *1*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
631.7 *1*	1.06 *9*	^{142}Gd(70.2 s)	750.2(11.2), 178.90(11.20), 284.4(6.16)
631.703 *3*	3.21 *10*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 631.703 *3*	8.91 *5*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
631.71 *7*	74.5 *19*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 741.87(29.4)
631.72 *18*	1.01 *11*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
631.73 *28*	0.051 *19*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
631.77 *12*	1.59 *9*	^{99}Nb(2.6 m)	97.785(7), 253.50(3.64), 2641.3(3.64)
631.77 *5*	1.6 *1*	^{126}In(1.60 s)	1141.11(55.9), 3344.61(21.6), 969.61(14.9)
631.80 *4*	2.80 *18*	^{117}Cd(3.36 h)	1997.33(26), 1065.98(23.1), 564.397(14.7)
631.8 *4*	0.116 *13*	^{139}Pm(4.15 m)	402.8(15), 463.1(4.1), 367.8(3.52)
631.82 *3*	6.95 *16*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
631.83 *4*	3.22 *14*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
631.84 *8*	0.80 *7*	^{100}Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
631.87 *5*	†26.6 *4*	^{162}Lu(1.37 m)	166.82(†100), 798.76(†16.9), 320.72(†15.19)
631.88 *15*	0.079 *16*	^{204}Bi(11.22 h)	899.15(98), 374.72(82), 984.02(59)
631.947 *17*	†15.1 *3*	^{148}Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
631.947 *17*	95 *5*	^{148}Tb(2.20 m)	784.430(100), 882.3(92), 394.6(86)
632.0 *4*	0.28 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
632.0 *3*	†4.0	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
632.00 *17*	0.18 *3*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
• 632.0 *10*	0.030 *10*	^{223}Ra(11.435 d)	269.459(13.7), 154.21(5.62), 323.871(3.93)
632.1 *1*	†35 *2*	^{148}Er(4.6 s)	1653.4(†100), 387.7(†88), 197.1(†71)
632.1 *3*	0.30 *9*	^{149}Pr(2.26 m)	138.447(11.0), 165.087(9.9), 108.520(9.5)
632.1 *5*	†2.3 *8*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
632.1 *3*	†14.4 *22*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
632.12 *9*	0.07	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
632.15 *15*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
632.2 *1*	0.0194 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
632.23 *5*	0.046 *9*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
• 632.25 *5*	4.47 *5*	^{206}Bi(6.243 d)	803.10(99), 881.01(66.2), 516.18(40.7)
632.3 *2*	†5.5 *3*	^{75}Ga(126 s)	253.0(†100), 574.8(†31.6), 885.6(†11.1)
632.30 *22*	0.262 *24*	^{95}Y(10.3 m)	954.00(16), 2175.6(7.00), 3576.0(6.4)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
632.3 *4*	†2.0 *3*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
• 632.3 *7*	†0.0089 *24*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
632.32 *19*	0.27 *3*	^{99}Sr(0.269 s)	125.118(16.1), 536.12(14.0), 1198.12(9.2)
632.34 *10*	0.151 *14*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
• 632.35 *10*	1.71 *7*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
• 632.386 *45*	0.098 *10*	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
632.4 *5*	0.25 *6*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
632.4 *10*	0.014 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
632.42 *3*	3.9 *3*	^{133}Sb(2.5 m)	1096.22(43.0), 817.8(18.5), 2755(12.5)
632.5 *1*	5.6 *4*	^{128}La(5.0 m)	284.00(87), 479.24(54), 643.65(14.7)
632.5 *10*		^{178}Os(5.0 m)	968.7(†100), 1331.1(†94), 594.6(†72)
• 632.56 *10*	†1.0×10^{6}	^{133}Ba(38.9 h)	
632.6 *3*	0.19 *5*	^{92}Kr(1.840 s)	142.307(64), 1218.6(60), 812.6(14.6)
632.6 *2*	0.036 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
632.65 *15*	0.0021 *5*	^{223}Fr(21.8 m)	50.13(36.0), 79.72(9.1), 234.81(3.0)
632.66 *4*	100	^{106}In(6.2 m)	861.16(92), 997.87(48), 1009.27(30.3)
632.66 *4*	92	^{106}In(5.2 m)	1714.90(17.1), 861.16(10.6), 1933.60(8.4)
• 632.67 *10*		^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
632.7 *3*	0.042	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
632.71 *10*	0.56 *5*	^{58}Mn(65.3 s)	810.764(<0.026), 1323.09(6.44), 459.160(21.4)
632.765 *8*	0.98 *3*	^{133}La(3.912 h)	278.835(2.50), 302.353(1.648), 290.06(1.413)
632.77 *9*	0.90 *8*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
• 632.79 *8*	0.039 *5*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
632.8 *3*	†8.7 *10*	^{111}Ru(2.12 s)	303.8(†100), 211.7(†77.7), 382.0(†41.3)
632.80 *20*	3.6 *3*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 575.0(3.2)
632.8 *2*	0.049 *25*	^{129}La(11.6 m)	278.6(25), 110.5(16.9), 457.0(8.0)
632.8 *3*	0.0012 *7*	^{152}Eu(9.274 h)	344.281(2.44), 1314.67(0.956), 970.38(0.604)
• 632.8 *3*	0.047 *23*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
632.9 *2*	1.5	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
632.9 *7*	4.5 *8*	^{163}Gd(68 s)	287.79(25), 214.0(11.5), 1562.1(9.0)
• 632.9 *1*	0.029 *3*	^{177}Ta(56.56 h)	112.9498(7.2), 208.3664(0.94), 1057.8(0.29)
• 632.93 *15*	†1.26×10^{4} *19*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^{9}), 33.195(†6000×10^{8})
632.96 *2*	1.76 *9*	^{108}Ag(2.37 m)	
632.96 *2*	76	^{108}In(39.6 m)	1986.8(12.4), 3452.2(9.2), 1529.7(7.3)
632.96 *2*	100 *4*	^{108}In(58.0 m)	875.46(100), 242.84(41), 1032.85(35)
632.99 *2*	1.25 *4*	^{188}Re(16.98 h)	155.032(14.9), 477.99(1.0), 931.34(0.545)
• 632.99 *2*	18 *3*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 477.99(15)
633.0 *3*	2.5	^{67}As(42.5 s)	122.7(19.2), 120.8(9.3), 243.6(7.8)
633 *1*	0.02 *1*	^{87}Zr(1.68 h)	1227(1.0), 1209.8(0.33), 1024(0.28)
633.0 *2*	0.72 *22*	^{119}Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
633.0 *2*	0.7 *4*	^{119}Cd(2.20 m)	1025.0(24.8), 2021.3(22.6), 720.7(17.9)
633.0 *5*	0.42 *21*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
633.0	†3.1 *6*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
633	1.0 *6*	^{190}Re(3.2 h)	186.718(27.8), 605.24(14.9), 557.972(14.3)
633.0 *5*	0.06	^{238}Am(98 m)	962.77(28), 918.69(23.0), 561.11(10.9)
• 633.03 *14*	2.15 *20*	^{146}Pm(5.53 y)	747.2(34.0)
• 633.03 *14*	43 *7*	^{146}Eu(4.59 d)	747.2(98), 634.07(37), 1533.8(6.05)
633.03 *20*	0.16 *5*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
633.04 *10*	0.086 *9*	^{100}Sr(202 ms)	963.85(22.0), 898.50(18.9), 65.46(15.2)
• 633.071 *20*	0.080 *9*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 633.090 *6*	2.53×10^{-6} *3*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
633.14 *10*	0.055 *6*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
• 633.18 *10*	0.0240 *24*	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
633.2	†19	^{148}Cs(158 ms)	141.7(†100), 687.2(†23), 545.5(†20)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
633.2 *3*	0.23 *3*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
633.3 *6*	0.39 *4*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
633.3 *2*	0.57 *6*	^{230}Fr(19.1 s)	711.0(13.6), 129.1(11.0), 728.4(7.3)
• 633.32 *10*	6.9×10^{-6} *5*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
633.35 *15*	0.042 *17*	^{103}Ag(65.7 m)	118.72(31.2), 148.193(28.3), 266.86(13.3)
633.4 *5*	0.0025 *12*	^{137}Xe(3.818 m)	455.490(31), 848.95(0.62), 1783.43(0.415)
633.4 *2*	0.29 *7*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
633.4 *5*	†4.7	^{179}Os(6.5 m)	65.39(†100), 218.6(†17), 32.3(†17)
633.4 *4*	0.13 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
633.415 *20*	0.568 *12*	^{165}Dy(2.334 h)	94.700(3.58), 361.68(0.84), 715.328(0.534)
• 633.440 *25*	0.048 *6*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
633.46 *7*	0.27	^{137}I(24.5 s)	1218.00(12.8), 601.05(4.80), 1302.64(4.42)
633.5 *3*	0.107 *20*	^{93}Sr(7.423 m)	590.238(67), 875.73(24.1), 888.13(21.8)
633.5 *6*	0.068 *14*	^{150}Pm(2.68 h)	333.971(68), 1324.51(17.5), 1165.739(15.8)
633.5 *3*	†1.20 *5*	^{196}Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
633.5 *2*	0.20 *4*	^{240}Np(61.9 m)	566.34(25.3), 973.9(23.8), 600.57(18.4)
633.7	5.9 *8*	^{35}Si(0.78 s)	4100.7(36.5), 3859.5(32.7), 2386.3(31.6)
633.7 *2*	0.131 *17*	^{94}Rb(2.702 s)	1309.1(87), 836.9(87.10), 1577.5(31.8)
633.7 *5*	2.75 *21*	^{129}Sb(4.40 h)	812.8(43), 914.6(20.0), 544.7(17.9)
633.70 *3*	1.013 *12*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
633.7 *5*	1.3	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
• 633.75 *25*	0.0090 *5*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
633.77 *9*	0.145 *13*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
633.8 *3*	†3.1 *5*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
633.8 *4*	>1.4	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
633.9 *5*	0.035 *12*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
634.0 *8*	0.23 *6*	^{77}Rb(3.75 m)	66.52(57), 178.99(22.2), 393.37(9.7)
634.00 *6*	0.26	^{79}Ge(19.1 s)	109.58(21), 1505.85(9.2), 100.48(2.70)
634.00 *6*	13	^{79}Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
634.00 *30*	0.030 *10*	^{114}Sb(3.49 m)	1299.90(99), 887.60(17.4), 327.18(7.0)
634.0 *2*	0.0152 *17*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
634.0 *2*	†2	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
634.0 *3*	0.030 *7*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
• 634	0.015 *6*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
634.0 *3*	0.16 *3*	^{190}Au(42.8 m)	295.78(71.0), 301.82(23.4), 597.67(9.4)
634.0 *2*	†9	^{256}Es(7.6 h)	861.8(†100), 231.1(†61), 172.6(†49)
634.05 *2*	0.0207 *6*	^{135}La(19.5 h)	480.51(1.5), 874.51(0.164), 587.83(0.1108)
634.06 *15*	0.93 *10*	^{115}Te(5.8 m)	723.569(30), 1380.58(23.0), 1326.83(22.7)
• 634.07 *11*	37 *6*	^{146}Eu(4.59 d)	747.2(98), 633.03(43), 1533.8(6.05)
634.10 *20*	1.00 *10*	^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
634.1 *6*	†0.46 *15*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
634.1 *5*	†14 *4*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
634.15 *20*	0.50 *25*	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
634.18 *10*	0.0109 *21*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
634.2 *1*	0.034 *6*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
634.2 *2*	0.98 *7*	^{152}Tb(4.2 m)	344.281(20.8), 411.115(18.8), 471.9(12.2)
634.20 *15*	0.30 *7*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
634.2 *2*	†5.0 *5*	^{195}Bi(183 s)	807.6(†100), 831.7(†100), 776.2(†95)
634.21 *11*	0.110 *23*	^{162}Ho(67.0 m)	185.005(28.6), 1220.0(22.5), 282.864(11.3)
• 634.26 *15*	0.036	^{74}As(17.77 d)	634.78(15.4), 1269.06(0.0018)
634.26 *15*	14.1 *19*	^{74}Br(25.4 m)	634.78(64), 219.05(18.1), 2615.2(7.37)
634.26 *15*	16.4 *23*	^{74}Br(46 m)	634.78(91), 728.37(35.6), 1269.06(8.8)
634.3 *2*	†10.2 *13*	^{106}Mo(8.4 s)	465.70(†100), 54.00(†54), 618.60(†25)
634.3 *2*		^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
634.3 *2*	0.134 *21*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
634.31 *2*	1.5 *1*	^{249}Cm(64.15 m)	560.45(0.84), 368.76(0.35), 621.87(0.182)
634.39 *3*	2.08 *4*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
634.4 *13*	0.32 *14*	^{14}B(13.8 ms)	6092.4(86), 6726.5(8.6), 1248(<5.6)
634.4 *1*	0.006 *3*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
634.4		^{161}Er(3.21 h)	826.6(3.0), 211.15(12.2), 592.6(3.7)
634.4	†9.5 *8*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
634.5 *15*	0.45 *13*	^{117}Te(62 m)	719.7(65), 1716.4(15.9), 2300.0(11.2)
634.5 *2*	0.11 *4*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
634.5 *5*	0.170 *7*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
• 634.51 *9*	0.0009 *4*	^{155}Tb(5.32 d)	86.545(32.0), 105.305(25), 180.103(7.45)
634.54 *6*	0.366 *12*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
634.59 *25*		^{191}Au(3.18 h)	586.45(17), 277.88(7.2), 674.19(6.8)
634.6 *5*	†24 *3*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
634.6 *5*	1.23 *19*	^{164}Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
• 634.61 *30*	0.00032 *8*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
634.7 *1*		^{125}La(76 s)	67.6(34), 43.6(3.5), 985.2
• 634.78 *10*	15.4 *5*	^{74}As(17.77 d)	634.26(0.036), 1269.06(0.0018)
634.78 *10*	64	^{74}Br(25.4 m)	219.05(18.1), 634.26(14.1), 2615.2(7.37)
634.78 *10*	91	^{74}Br(46 m)	728.37(35.6), 634.26(16.4), 1269.06(8.8)
634.78 *10*	0.091 *25*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
634.8 *5*	0.28 *4*	^{92}Ru(3.65 m)	213.81(96), 259.32(92), 134.57(65.5)
634.8 *5*	†4.0	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
634.8 *1*	†75.9 *39*	^{192}Tl(9.6 m)	422.8(†100), 786.3(†31.7), 745.5(†26.8)
634.9 *7*	0.27 *8*	^{127}Sn(2.10 h)	1114.3(39), 1095.6(20), 823.1(10.9)
634.9	0.45	^{150}Pr(6.19 s)	130.2(32), 722.5(7.0), 852.7(6.1)
634.93 *12*	†5.0 *7*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
634.98 *5*	0.146 *5*	^{188}Re(16.98 h)	155.032(14.9), 632.99(1.25), 477.99(1.0)
• 634.98 *5*	5.0 *7*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
635.0 *8*	0.47	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
635.0 *10*	0.0033 *17*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
• 635		^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
635.0 *4*	0.27 *10*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
635.0 *4*	†2.4 *8*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
• 635	0.010	^{210}Bi(3.04×10^6 y)	265.832(50), 304.896(28), 649.42(3.8)
635.02 *12*	1.06 *6*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
635.04 *30*	0.059 *19*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
635.1 *1*	0.86 *9*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
635.1 *4*	0.4	^{140}Pm(5.95 m)	1028.19(100), 773.74(100), 419.57(92)
635.1 *4*	0.45 *7*	^{184}Au(53.0 s)	162.97(50), 272.98(40), 362.47(17.5)
635.1 *4*	0.79 *16*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
635.18 *3*	†88	^{238}Pa(2.3 m)	1015.3(†<100), 1014.6(†<100), 448.3(†76)
635.2 *5*	0.29 *7*	^{98}Sr(0.653 s)	119.353(73), 444.628(39), 428.4(31)
635.2 *3*	0.50 *20*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
635.2 *1*	0.57 *6*	^{146}Ba(2.22 s)	140.7(20.2), 251.2(19.6), 121.2(14.2)
635.2 *5*	†76	^{223}Rn(23.2 m)	591.8(†100), 416.0(†55), 654.0(†44)
635.21 *11*	0.23 *3*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
635.3 *4*	0.33 *10*	^{159}Er(36 m)	624.5(33), 649.1(23.4), 205.92(9.7)
635.3 *4*	>0.11	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
635.31 *4*	4.5 *17*	^{100}Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
635.40 *30*	0.478 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
635.40 *2*	1.70 *6*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
635.4 *2*	>0.05	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
635.4 *3*	0.35 *5*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 635.410 *15*	>0.30	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
635.44 *17*	0.45 *9*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
635.50 *20*	0.014 *5*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
635.5 *3*	0.031 *19*	^{158}Tm(3.98 m)	192.13(62), 335.10(16.8), 1149.83(7.6)
635.5 *5*	0.7 *3*	^{178}Re(13.2 m)	237.3(45), 105.9(23.0), 939.1(8.9)
635.5 *1*	9.8 *10*	^{196}Tl(1.84 h)	426.0(84), 610.5(11.9), 1495.8(8.2)
635.5 *1*	†304 *46*	^{196}Tl(1.41 h)	426.0(†540), 695.6(†243), 610.5(†30)
635.56 *16*	20.9 *11*	^{78}Zn(1.47 s)	224.75(43.9), 181.68(28.1), 860.30(24.5)
635.6 *2*	9.9 *10*	^{132}Sb(2.79 m)	973.9(99), 696.8(86), 989.6(14.9)
635.6 *5*	0.045 *15*	^{141}Eu(2.7 s)	394.0(0.60), 882.9(0.54), 518.8(0.45)
635.6 *3*	0.37 *6*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
635.6 *4*	>3.8	^{186}Pt(2.0 h)	276.7(0), 611.5(6.0), 366.7(2.3)
635.6 *3*	0.08 *3*	^{230}Ac(122 s)	454.95(8), 508.20(5.15), 1243.9(3.50)
635.7 *3*	1.6 *3*	^{130}Sb(39.5 m)	793.53(100), 839.49(100), 331.05(78)
635.7 *1*	1.78 *10*	^{138}Pr(2.12 h)	1037.8(101), 788.742(100), 302.7(80)
635.7	0.067 *13*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
635.7 *4*	0.13 *7*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
635.71 *6*	0.051 *10*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
635.75 *9*	0.046 *9*	^{157}Eu(15.18 h)	63.929(23.0), 410.723(17.5), 370.509(11.0)
635.8 *3*	0.068 *23*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
635.8 *2*	0.069 *25*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
635.8 *2*	10	^{208}Fr(59.1 s)	778.5(6.8), 325.3(5.2), 553.1(3.04)
635.824 *18*	0.11	^{125}Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
635.842 *18*	0.12	^{125}Xe(16.9 h)	188.418(54), 243.378(30.1), 54.968(6.81)
635.86 *5*	2.69 *9*	^{119}I(19.1 m)	257.52(87), 320.53(2.17), 557.24(1.77)
635.90 *15*	0.64 *10*	^{121}Ag(0.78 s)	314.55(32.1), 353.43(19.9), 500.61(9.3)
• 635.954 *5*	11.31 *9*	^{125}Sb(2.7582 y)	427.875(30), 600.600(17.86), 463.365(10.493)
636.0 *5*	8.6 *20*	^{73}Kr(27.0 s)	177.8(65.8), 62.5(19.1), 454.8(15)
636 *2*	0.074 *22*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
636.0 *10*	0.42 *21*	^{83}Se(22.3 m)	356.687(70), 510.17(43), 224.8(32.7)
636.00 *10*	1.43 *13*	^{99}Ag(124 s)	264.41(65), 832.29(13.5), 805.07(12.5)
636.0 *7*	0.57 *24*	^{104}In(1.8 m)	658.0(100), 834.1(99), 878.1(29.4)
636.0 *3*	†6.7 *1*	^{114}Te(15.2 m)	90.28(†100), 83.8(†67), 1417.6(†32)
• 636 *1*	0.006	^{191}Pt(2.9 d)	538.90(13.7), 409.44(8.0), 359.90(6.0)
636.0 *4*	0.14 *7*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
• 636.05 *10*	0.0003	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
636.1 *4*	0.21 *17*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
636.10 *5*	0.239 *16*	^{107}Ru(3.75 m)	194.05(9.9), 847.93(5.3), 462.61(3.66)
• 636.11 *7*	0.49 *16*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
• 636.11 *3*	1.45 *5*	^{173}Lu(1.37 y)	272.105(21.2), 78.63(11.87), 100.724(5.24)
636.2 *2*		^{106}In(6.2 m)	632.66(100), 861.16(92), 997.87(48)
636.2 *2*		^{106}In(5.2 m)	632.66(92), 1714.90(17.1), 861.16(10.6)
636.2	0.317 *14*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
636.2	0.052 *10*	^{149}Nd(1.728 h)	211.309(25.9), 114.314(19.2), 270.166(10.7)
• 636.20 *3*	1.42 *9*	^{151}Pm(28.40 h)	340.08(23), 167.75(8.3), 275.21(6.8)
636.26 *2*	36 *2*	^{128}Sb(9.01 h)	753.82(100), 743.22(100), 314.12(61)
636.26 *10*	1.65 *20*	^{134}Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
636.27 *10*	0.382 *13*	^{78}Rb(17.66 m)	454.97(63), 692.86(12.56), 562.15(11.41)
636.27 *10*	0.089 *24*	^{78}Rb(5.74 m)	454.97(81), 664.44(38.3), 1109.72(13.12)
636.3 *1*	0.0100 *5*	^{109}Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 647.3(0.024)
636.3 *3*	0.31 *5*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
636.3 *2*	0.6 *3*	^{208}Fr(59.1 s)	635.8(10), 778.5(6.8), 325.3(5.2)
• 636.31 *10*		^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
• 636.32 *12*	0.084 *19*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
636.389 *14*	6.2 *3*	^{186}Ir(16.64 h)	296.911(64.0), 137.155(42), 434.849(34.4)
636.389 *14*	1.8 *5*	^{186}Ir(2.0 h)	137.155(27), 767.508(21.2), 630.354(18.0)
636.39 *8*	0.16 *1*	^{87}Br(55.60 s)	1419.71(22.0), 1476.04(7.9), 1577.60(6.0)
636.4	0.7 *3*	^{42}Ti(199 ms)	611.046(56), 2222.6(0.67), 975.25(0.6)
636.4 *2*	1.19 *11*	^{98}Y(0.548 s)	1223.0(36.0), 2941.3(16.7), 1590.9(14.7)
636.4 *3*	1.46 *12*	^{148}Pr(2.27 m)	301.702(61), 1357.78(5.5), 1023.18(4.8)
636.4 *2*	0.034 *7*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
636.4 *8*	†2.3 *9*	^{160}Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
636.4 *3*	†18 *7*	^{193}Tl(21.6 m)	324.37(†100), 1044.7(†59), 676.10(†48)
636.4 *3*	10.1 *7*	^{198}Tl(5.3 h)	411.8044(82), 675.8874(11), 1200.6(9.7)
636.4 *3*	†202 *19*	^{198}Tl(1.87 h)	411.8044(†202), 587.2(†185), 226.2(†19)
• 636.45 *25*	0.0020 *2*	^{153}Sm(46.27 h)	103.1807(31.4), 69.67340(4.85), 97.4316(0.847)
636.5 *4*	4.3 *4*	^{110}Sb(23.0 s)	1211.87(92), 985.03(31.2), 1243.6(13.4)
636.5 *4*	0.22 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
• 636.50 *5*	0.0093 *6*	^{149}Pm(53.08 h)	285.95(3.1), 859.46(0.109), 590.88(0.069)
• 636.50 *5*	0.00015 *1*	^{149}Eu(93.1 d)	327.526(4.03), 277.089(3.56), 22.510(2.32)
636.5 *2*	†23 *23*	^{194}Tl(33.0 m)	428.0(†100), 645.20(†13), 1040.3(†5.6)
636.5 *2*	99 *5*	^{194}Tl(32.8 m)	428.0(99), 748.9(76), 734.9(22)
636.5 *2*	†1.90 *23*	^{201}Po(15.3 m)	890.1(†100), 240.1(†71.0), 904.2(†54.8)
• 636.6 *3*		^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
636.6 *1*	0.05	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
636.7 *3*	1.4 *5*	^{80}Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
636.7 *4*	0.81 *9*	^{85}Zr(7.86 m)	454.20(45), 416.3(27.0), 1198.4(4.8)
636.7 *2*	1.7 *4*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
636.7 *2*	†27 *5*	^{174}Er(3.3 m)	100.4(†100), 708.4(†93), 766.9(†92)
636.72 *12*	0.012 *3*	^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
636.72 *12*		^{246}Am(25.0 m)	1078.86(27.7), 798.80(25), 1062.04(17.1)
636.79 *10*	0.192 *13*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
636.80 *10*	0.39 *5*	^{102}Tc(5.28 s)	475.070(7), 468.59(0.88), 865.5(0.87)
• 636.80 *10*	†0.24 *3*	^{102}Rh(207 d)	475.070(†47), 628.05(†4.6), 1103.16(†2.99)
• 636.80 *20*	0.022 *4*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
636.8 *5*	†1.04 *21*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
636.85 *15*	0.25 *3*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
• 636.86 *7*	0.029 *5*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
• 636.88 *3*	1.53 *11*	^{241}Cm(32.8 d)	471.805(71), 430.634(4.06), 132.413(3.86)
636.9 *2*	5.4 *9*	^{103}Zr(1.3 s)	248(100), 164.05(94), 126.30(84)
636.9 *1*	1.8 *3*	^{141}Tb(3.5 s)	293.3(16.8), 343.6(16.3), 198.4(14.8)
636.9 *3*	†0.09 *5*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
636.90 *12*	0.31 *4*	^{187}Ir(10.5 h)	912.95(4.79), 427.12(4.12), 400.89(3.94)
• 636.989 *4*	7.17 *9*	^{131}I(8.02070 d)	364.489(81.7), 284.305(6.14), 80.185(2.62)
637.0 *2*	5.36 *20*	^{153}Ho(2.0 m)	295.8(67), 688.5(3.7), 1276.5(3.3)
637 *1*	0.20 *7*	^{163}Tb(19.5 m)	351.138(26), 389.734(24.3), 494.534(23)
637 *1*	1.4 *3*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
637.01 *10*	0.24 *3*	^{184}Pt(17.3 m)	154.90(31), 191.97(27), 548.36(23.1)
637.03 *19*	0.119 *8*	^{111}Sn(35.3 m)	1152.98(2.7), 1914.70(1.99), 761.97(1.48)
637.04 *7*	11	^{63}Ga(32.4 s)	627.10(10.3), 192.94(5.7), 650.14(4.9)
637.1 *2*	0.205 *22*	^{78}As(90.7 m)	613.725(54), 694.916(16.7), 1308.59(13.0)
637.1 *4*	2.9 *10*	^{120}In(46.2 s)	1171.3(96), 1023.1(55), 863.7(32.5)
637.1 *8*	0.018	^{157}Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
637.1 *8*	0.02	^{157}Dy(8.14 h)	326.16(92), 182.20(1.84), 83.01(0.62)
637.12 *8*	0.284 *20*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
637.13 *20*	0.10 *4*	^{162}Yb(18.87 m)	163.35(40.0), 118.70(33.6), 576.10(3.24)
637.2 *1*	0.45	^{154}Pm(2.68 m)	184.810(32), 81.99(15.4), 546.66(14.5)
637.2 *2*	0.38 *6*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
637.27 *2*	2.49 *22*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
637.28 *15*	†3.3 *5*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
637.3 *3*	1.7 *4*	^{81}Ge(7.6 s)	335.98(58.9), 792.94(34), 1495.53(19.9)
637.3 *3*	1.49 *14*	^{117}Ag(5.34 s)	135.4(48), 386.8(39.9), 298.1(21.1)
• 637.3 *2*	>0.04	^{131}Te(30 h)	773.67(49.9), 852.21(27.0), 793.75(18.10)
637.3 *2*	3.02 *16*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
637.4 *2*	1.8 *4*	^{108}In(58.0 m)	875.46(100), 632.96(100), 242.84(41)
637.4 *3*	†17	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
637.41 *7*	0.255 *16*	^{62}Zn(9.186 h)	596.56(26), 40.84(25.5), 548.35(15.3)
637.46 *2*	1.54 *6*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
637.46 *9*	0.52 *4*	^{208}At(1.63 h)	686.527(98), 660.040(89), 177.595(48.6)
637.5 *4*	0.097 *16*	^{85}Y(4.86 h)	231.67(22.8), 2123.8(5.0), 767.40(3.6)
637.5 *5*	0.047 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
637.5 *6*	0.4 *3*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
637.61 *28*	0.10 *3*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
637.717 *5*		^{235}Pa(24.5 m)	652.053, 659.3, 645.896
• 637.717 *5*	6.0×10^{-7}	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 637.795 *5*	1.9×10^{-6}	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
• 637.8 *5*	0.44 *15*	^{127}Sb(3.85 d)	685.7(37), 473.0(25.7), 783.7(15.0)
• 637.8 *3*	0.0056 *21*	^{195}Hg(41.6 h)	261.75(30.9), 560.27(7), 387.87(2.15)
637.8 *2*	2.7 *5*	^{196}Bi(308 s)	1049.21(87), 689.00(35.5), 776.6(9.1)
• 637.826 *24*	0.014 *7*	^{150}Eu(35.8 y)	333.971(96), 439.401(80.4), 584.274(52.6)
637.9 *5*	2.4	^{101}Cd(1.2 m)	98.0(47), 1722.5(11), 1259.3(8)
637.9 *5*	0.755 *21*	^{116}Te(2.49 h)	93.70(31.4), 628.63(3.22), 102.97(1.95)
637.90 *13*	0.023 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
637.9 *3*	0.18 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
637.9	0.6	^{190}Hg(20.0 m)	142.6(68), 171.5(4.8), 154.7(2.5)
637.97 *9*	0.43 *5*	^{201}Pb(9.33 h)	331.19(79), 361.27(9.9), 945.96(7.4)
637.98 *16*	0.27 *3*	^{164}Lu(3.14 m)	123.3(34.0), 740.52(12.2), 262.22(10.8)
638.00 *9*	26.2 *8*	^{88}Nb(7.8 m)	1057.01(89.3), 1082.53(53.9), 399.41(45.7)
638.0 *5*	0.29 *7*	^{119}Ag(2.1 s)	626.4(13), 366.2(12.1), 399.1(10.9)
638.0 *3*	†2.5 *6*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
• 638.03 *8*	0.00095 *4*	^{113}Sn(115.09 d)	391.690(64), 255.06(1.82), 382.6(>0.000060)
• 638.05 *35*	0.045 *9*	^{83}Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
638.05 *10*	100	^{150}Tb(5.8 m)	650.4(70), 438.37(42), 827.48(41)
638.05 *10*	72	^{150}Tb(3.48 h)	496.3(14.8), 792.5(4.39), 650.4(4.03)
638.06 *17*	†5.8 *9*	^{181}Pt(51 s)	289.29(†100), 111.97(†100), 230.15(†92)
638.10 *10*	0.82 *5*	^{74}Ga(8.12 m)	595.847(91), 2353.46(44.5), 608.353(14.3)
638.1 *5*	0.035 *12*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
638.1 *4*	0.14 *7*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
638.12 *23*	0.233 *25*	^{164}Yb(75.8 m)	40.928(1.147), 675.41(0.38), 390.6(0.31)
638.2 *5*	>0.08	^{61}Zn(89.1 s)	475.0(16.85), 1660.5(7.80), 970.0(2.57)
638.2 *3*	0.039 *10*	^{95}Rb(377.5 ms)	352.02(49), 204.02(15.1), 680.7(14.8)
638.2 *2*	0.70 *20*	^{118}Cs(14 s)	337.4(100), 472.8(37.4), 586.6(15.4)
638.2 *10*	0.12 *6*	^{156}Ho(56 m)	266.35(54.7), 137.83(51), 366.25(10.73)
638.3 *2*	36 *2*	^{151}Er(23.5 s)	667.2(17), 256.4(15.9), 100.3(10.7)
• 638.31 *10*	0.099 *22*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
638.4 *4*	†13 *3*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
638.5 *3*	0.30 *4*	^{120}Xe(40 m)	25.1(30), 72.6(9), 178.1(6.8)
638.5 *2*	63 *5*	^{122}Cs(4.5 m)	331.1(94), 497.1(79), 560.3(14.0)
638.5 *2*	†6	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
638.50 *16*	†2.9 *3*	^{165}Lu(10.74 m)	132.49(†100), 120.60(†100), 174.25(†47.0)
638.5 *1*	†3.1 *5*	^{180}Au(8.1 s)	153.3(†100), 524.3(†29), 257.6(†26)
638.5 *2*	0.29 *3*	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
638.6 *5*	0.09 *4*	^{115}Ag(20.0 m)	229.08(18), 212.80(4.4), 472.70(4.0)
638.6 *3*	†2.8 *8*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
638.61 *2*	1.32 *4*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
638.61 *12*		^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
638.65 *4*	0.0033 *11*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
638.66 *10*	0.222 *24*	^{105}Ru(4.44 h)	724.21(47), 469.37(17.5), 676.36(15.7)
638.7 *3*	0.32 *13*	^{88}Br(16.5 s)	775.28(63), 802.14(13.13), 1440.69(4.72)
638.7 *1*	0.086 *16*	^{100}Rh(20.8 h)	539.59(78.4), 2376.1(35.3), 1553.4(21)
638.7 *3*	0.28 *4*	^{103}Tc(54.2 s)	346.380(17.5), 136.079(16.6), 562.90(7.0)
638.7 *1*	0.56 *7*	^{107}Tc(21.2 s)	102.70(21.0), 177.00(9.2), 106.31(7.6)
638.7 *3*	2.50 *25*	^{127}In(1.09 s)	1597.7(49), 646.1(6.2), 805.1(5.6)
638.7 *3*	†51 *10*	^{234}Ac(44 s)	1847(†100), 1912(†91), 688.5(†87)
638.79 *22*	†2.30 *23*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
638.8 *10*	1.3	^{151}Ho(35.2 s)	527.4(63), 775.53(9.2), 209.5(5.69)
638.8	†16.7 *6*	^{178}Ir(12 s)	266.1(†100.0), 131.6(†79), 363.1(†39.9)
638.8 *4*	†<2.7	^{182}Au(21 s)	154.76(†100), 264.33(†40.0), 855.41(†14.5)
638.8 *3*	†3 *1*	^{203}At(7.4 m)	639.4(†100), 641.5(†55.8), 738.1(†38.4)
638.83 *8*	0.20	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
638.9 *2*	0.055 *15*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
638.9 *5*	2.47 *15*	^{117}I(2.22 m)	325.9(75), 274.4(20.4), 661.5(5.1)
638.97 *18*	0.0404 *11*	^{77}Ge(11.30 h)	264.44(54), 211.03(30.8), 215.50(28.6)
639.0 *1*	1.04 *15*	^{73}Br(3.4 m)	64.9(37.0), 336.0(10.4), 699.8(9.1)
639.0 *2*	3.1 *2*	^{117}Xe(61 s)	28.5(7.0), 221.3(10.0), 32.3(7.6)
639 *1*		^{119}Te(16.03 h)	644.01(84), 699.85(10.1), 1749.65(3.95)
639.00 *16*	0.133 *13*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
639.00 *5*	†21.2 *4*	^{144}Cs(1.01 s)	199.326(†100.0), 758.96(†20.6), 559.57(†20.2)
639.0 *5*	0.024 *10*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
639.0 *1*	0.65 *14*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
639.0 *2*	0.082 *12*	^{183}Ir(58 m)	392.52(10.4), 228.70(6.9), 87.67(5.6)
639.0 *4*	0.63 *10*	^{193}Hg(11.8 h)	257.97(61), 407.63(25), 573.25(14.2)
• 639.09 *10*	0.0075 *12*	^{193}Os(30.5 h)	139.03(4.27), 460.50(3.95), 73.039(3.2)
639.1 *2*	7.0 *17*	^{100}Nb(2.99 s)	535.60(97.0), 600.5(65.0), 1280.6(23.8)
639.1 *10*	0.030 *10*	^{116}In(54.41 m)	1293.54(84.4), 1097.3(56.2), 416.86(28.9)
639.18 *15*	1.32 *12*	^{140}Xe(13.60 s)	805.52(20), 1413.66(12.2), 1315.05(8.2)
639.2 *2*	†3.3 *3*	^{185}Hg(21.6 s)	222.8(†100.0), 258.7(†98), 212.5(†58)
639.256 *7*	6.4 *4*	^{175}Tm(15.2 m)	514.868(65), 941.23(15), 363.942(12.7)
639.3 *3*	7.1 *7*	^{116}Cs(3.84 s)	393.5(<0.09), 524.3(76), 615.1(30.4)
639.3 *2*	0.26 *4*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
639.30 *14*	6.4 *13*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 953.42(3.6)
639.3 *3*	0.063 *6*	^{186}Hg(1.38 m)	112.1(63), 251.5(55), 191.6(3.7)
639.3 *2*	†7.5 *15*	^{187}Hg(1.9 m)	233.38(†100), 376.34(†38), 240.26(†33)
639.35 *25*	3.6 *4*	^{54}V(49.8 s)	834.848(97.1), 989.01(80.1), 2259.35(45.6)
639.37 *20*	0.033 *11*	^{214}Bi(19.9 m)	609.312(44.8), 1764.494(15.36), 1120.287(14.80)
639.4 *3*	52 *7*	^{116}Rh(0.9 s)	340.5(90), 538.4(40), 726.2(38)
639.4 *3*	0.022	^{170}Hf(16.01 h)	164.78(33), 620.7(23), 120.17(19)
639.4 *2*	0.48 *6*	^{170}Ta(6.76 m)	100.8(21.0), 221.2(15.7), 860.4(7.39)
639.4 *2*	†100	^{203}At(7.4 m)	641.5(†55.8), 738.1(†38.4), 656.4(†26.6)
639.4 *2*	0.22	^{227}Ra(42.2 m)	27.36(16), 300.07(4.6), 302.65(4.3)
639.47 *7*	†3.74 *14*	^{148}Tb(60 m)	784.430(†119.0), 489.049(†28.0), 1079.025(†16.2)
• 639.477 *14*	0.0484 *25*	^{71}As(65.28 h)	174.954(82.00), 1095.490(4.08), 499.876(3.624)
• 639.5 *10*	0.0036 *14*	^{76}As(26.32 h)	559.101(45), 657.041(6.2), 1216.104(3.42)
639.5 *10*	0.14 *4*	^{76}Br(16.2 h)	559.101(74), 657.041(15.9), 1853.67(14.7)
639.5 *4*	0.09 *5*	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
639.50 *10*	1.36 *10*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
639.56 *16*	0.258 *20*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
639.6 *1*	0.261 *20*	^{80}Br(17.68 m)	616.6(7), 703.9(0.19), 1256.3(0.074)
639.6 *1*	1.50 *15*	^{80}Rb(34 s)	616.6(25), 703.9(1.88), 1256.3(0.57)
639.6 *2*	†100 *11*	^{134}Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
639.6 *2*	†100 *11*	^{134}Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
639.6 *2*	0.62 *6*	^{140}Pm(9.2 s)	773.74(5.0), 477.1(2.6), 1204.8(1.9)
639.6 *3*	12	^{145}Dy(13.6 s)	578.2(13), 804.3(10), 39.7
639.62 *7*	†0.8 *3*	^{101}Nb(7.1 s)	276.10(†100), 157.466(†32), 13.5(†32)
639.70 *8*	5.4 *5*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
• 639.7 *2*	0.90 *10*	^{126}Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
• 639.72 *2*	0.0084 *6*	^{97}Ru(2.9 d)	215.718(86), 324.48(10.79), 569.31(0.873)
639.74 *11*	0.59 *3*	^{66}Ge(2.26 h)	43.89(28.7), 381.85(28), 272.97(10.4)
639.8 *3*	0.32 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
639.9	0.09	^{43}Ar(5.37 m)	975.0(34), 738.1(15), 1439.5(13)
639.9	2.6 *7*	^{99}Y(1.470 s)	121.761(33), 724.30(14.9), 536.2(6.6)
639.9 *1*	8.2 *6*	^{100}Ag(2.01 m)	665.54(99), 750.67(78), 773.20(24.2)
639.90 *30*	3.1	^{116}Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
639.92 *10*	0.86 *7*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
• 639.97 *4*	8.7×10^{-6} *2*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
640	†>0.23	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
640	>0.11	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
640.0 *4*	0.099 *21*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
640 *1*	0.06 *3*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
640.0 *5*	0.105 *21*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
• 640		^{243}Cm(29.1 y)	277.599(14.0), 228.183(10.6), 209.753(3.29)
• 640.04 *3*	0.090 *4*	^{166}Ho(1.20×10^{3} y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
640.04 *3*	0.0497 *15*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
640.06 *11*	2.91 *6*	^{146}Cs(0.343 s)	181.02(57.0), 557.76(9.18), 332.38(6.44)
640.1 *7*	†4.6 *9*	^{160}Tm(9.4 m)	125.8(†100), 728.5(†37), 264.1(†27)
640.11 *3*	0.062 *8*	^{183}Os(13.0 h)	381.768(89.6), 114.463(20.63), 167.844(8.81)
640.2 *3*	†11.4 *12*	^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
640.24 *8*	2.64 *24*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
640.34 *4*	0.056 *5*	^{228}Ac(6.15 h)	911.205(26.6), 968.971(16.2), 338.322(11.3)
640.34 *4*	0.06 *3*	^{228}Pa(22 h)	911.205(4.19), 463.005(1.250), 964.770(4.25)
640.4 *2*	0.074 *11*	^{163}Tm(1.810 h)	104.320(18.6), 69.229(11.6), 241.305(10.9)
640.44 *18*	0.50 *8*	^{156}Tm(83.8 s)	344.55(86), 452.85(17.2), 585.93(14.6)
640.46 *8*	0.061 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
640.55 *8*	0.55 *8*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
640.58 *10*	0.566 *24*	^{107}In(32.4 m)	204.97(47), 505.51(11.9), 320.92(10.2)
640.6 *3*	†0.49 *12*	^{95}Pd(13.3 s)	1350.9(†105), 716.6(†70.63), 381.8(†50.8)
640.6 *5*	2.8 *22*	^{103}In(65 s)	187.97(55), 720.32(13.9), 739.95(10.1)
640.6 *3*	0.57 *8*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
640.8 *7*	0.21 *5*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
640.8 *3*	0.8 *3*	^{112}Rh(6.8 s)	348.70(87), 560.5(49), 1098.6(39)
640.8 *1*	0.082 *3*	^{121}I(2.12 h)	212.189(84), 532.08(6.07), 598.74(1.47)
640.8 *2*	†7 *1*	^{185}Pt(33.0 m)	229.60(†100), 135.3(†80), 197.4(†74)
640.85 *5*	†17.1 *8*	^{120}I(81.0 m)	560.44(†137), 1523.0(†21.1), 601.11(†10.8)
640.9 *4*	0.20 *7*	^{76}Kr(14.8 h)	315.7(39), 270.2(21.1), 45.48(19.5)
640.90 *20*	0.42 *14*	^{102}Zr(2.9 s)	599.60(13.9), 535.30(10.6), 64.50(8.9)
640.9 *3*	0.62 *12*	^{149}Dy(4.20 m)	100.8(15.2), 789.4(11.8), 1776.3(11.1)
640.9 *2*	>0.05	^{173}Ta(3.14 h)	172.2(18), 69.70(5.9), 90.3(5.0)
640.97 *5*	0.035 *14*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
640.97 *7*	0.056 *17*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
641.0	0.28 *3*	^{157}Er(18.65 m)	53.05(24), 391.32(14.2), 121.57(10.1)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
641.00	0.53 *18*	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
641.00	>0.36	^{207}At(1.80 h)	814.41(44.5), 588.33(19.2), 300.654(12.8)
• 641.0 *5*	†0.0012 *4*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
• 641 *2*		^{241}Pu(14.35 y)	148.567(†309000), 103.680(†69400), 77.10(†35100)
• 641.01 *10*	0.071 *8*	^{156}Tb(5.35 d)	534.318(66.6), 199.2132(40.9), 1222.36(31.00)
641.072 *15*	1.25 *3*	^{155}Dy(9.9 h)	226.918(68.4), 184.564(3.37), 1089.8(>2.8)
641.10 *10*		^{86}Zr(16.5 h)	242.80(96), 29.10(21.6), 612.00(5.7)
641.1 *1*	†55 *3*	^{103}Nb(1.5 s)	102.64(†100), 538.5(†34.0), 138.5(†13.5)
641.19 *7*	1.44 *24*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
641.2 *25*	>1.3	^{77}Sr(9.0 s)	146.94(86.1), 160.10(9.2), 144.82(6.8)
641.2 *4*	0.10 *5*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
641.22 *21*	0.55 *7*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
641.285 *9*	47	^{142}La(91.1 m)	2397.8(13.3), 2542.7(10.00), 894.9(8.34)
641.285 *9*	0.0022	^{142}Pr(19.12 h)	
641.3 *2*	†0.9 *3*	^{152}Tb(17.5 h)	344.281(†1500), 586.294(†223), 271.135(†203)
641.3 *4*	0.062 *11*	^{199}Pb(90 m)	366.90(44.2), 353.39(9.5), 1135.04(7.8)
641.380 *25*	10.0 *5*	^{147}Pr(13.4 m)	77.9921(15), 314.675(13.2), 577.95(8.5)
641.4 *10*		^{77}Ga(13.2 s)	469.4(†100), 458.6(†48), 2187.3
641.4 *5*	0.384 *20*	^{142}Pm(40.5 s)	1575.85(2.0), 2384.3(0.067), 2845.9(0.047)
641.46 *16*	0.22 *3*	^{157}Sm(482 s)	197.870(56.00), 196.461(16.8), 394.351(11.93)
• 641.47 *5*	†7.1×10^4 *3*	^{241}Am(432.2 y)	59.537(†60), 26.345(†1000×10^9), 33.195(†6000×10^8)
641.5 *4*	†9 *3*	^{131}Nd(27 s)	87.8(†100), 174.42(†34), 164.09(†25)
641.5	0.400 *18*	^{141}Ba(18.27 m)	190.328(46.0), 304.194(25.4), 276.948(23.4)
641.5	†13.0	^{144}Gd(4.5 m)	333.3(†100), 2432.6(†94.8), 629.5(†32.4)
641.5 *2*	10 *1*	^{151}Er(23.5 s)	638.3(36), 667.2(17), 256.4(15.9)
641.5 *3*	0.083 *10*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
641.5 *2*	†55.8 *6*	^{203}At(7.4 m)	639.4(†100), 738.1(†38.4), 656.4(†26.6)
• 641.59 *5*	0.38 *4*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
641.6 *2*	†4.0 *3*	^{192}Bi(37 s)	853.8(†100.0), 501.8(†80), 504.3(†39)
641.68 *5*	25.9 *6*	^{110}In(4.9 h)	657.7622(98.3), 884.685(92.9), 937.493(68.4)
641.70 *20*	0.059 *4*	^{111}Pd(23.4 m)	580.00(0.8), 70.44(0.78), 1459.0(0.56)
641.77 *11*	0.071 *16*	^{227}Fr(2.47 m)	90.035(39), 585.804(29.5), 64.267(14.5)
641.8 *5*	†6.6 *8*	^{103}Mo(67.5 s)	83.4(†100), 423.91(†69), 45.8(†57)
641.8 *2*	†0.95 *23*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
641.8 *2*	0.45 *11*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
641.8 *3*	†1.19 *24*	^{189}Hg(7.6 m)	320.99(†100), 78.21(†63), 565.42(†48)
641.81 *11*	1.0 *4*	^{157}Pm(10.56 s)	160.61(35), 188.052(13.5), 571.27(5.39)
641.82 *18*	†0.65 *11*	^{188}Au(8.84 m)	265.63(†100), 340.04(†23.9), 605.5(†16.3)
641.910 *7*	1.40 *12*	^{184}Ta(8.7 h)	414.03(72), 252.848(43), 920.932(32.0)
• 641.910 *7*	1.94 *3*	^{184}Re(38.0 d)	903.279(37.9), 792.071(37.5), 111.208(17.1)
• 641.910 *7*	0.344 *12*	^{184}Re(169 d)	252.848(10.7), 216.548(9.43), 920.932(8.14)
642 *1*	4.1 *6*	^{164}Ta(14.2 s)	211.05(74), 376.8(22), 605.0(14)
642.0 *5*	0.35	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
642.0 *10*	0.21 *4*	^{201}Bi(108 m)	629.1(24.0), 936.2(11.3), 1014.1(10.7)
642.0 *6*	>0.11	^{209}Rn(28.5 m)	408.32(50.3), 745.78(22.8), 337.45(14.5)
642	>0.034	^{245}Pu(10.5 h)	327.428(25.4), 560.13(5.4), 308.222(4.9)
• 642.1	0.047 *3*	^{125}Sb(2.7582 y)	427.875(30), 600.600(17.86), 635.954(11.31)
642.11 *12*	0.238 *25*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
642.2 *4*	>0.039	^{132}I(2.295 h)	667.718(99), 772.60(75.6), 954.55(17.6)
642.2 *6*	0.19 *6*	^{151}Dy(17.9 m)	386.10(19.4), 49.46(18.0), 546.31(14.3)
642.2 *3*	†8 *3*	^{155}Nd(8.9 s)	180.574(†100), 418.99(†75), 955.08(†50)
642.2 *3*	0.11	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
642.21 *5*	14.4 *10*	^{80}Zn(0.545 s)	712.53(45.1), 715.40(33.8), 964.93(15.6)
642.30 *9*	23 *4*	^{131}Sb(23.03 m)	943.4(47), 933.1(26.1), 1123.6(9.2)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
642.3 *3*	0.16 *6*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
642.3 *4*	0.028	^{233}Th(22.3 m)	86.477(2.7), 29.374(2.5), 459.222(1.4)
642.33 *9*	0.88 *11*	^{133}Te(55.4 m)	912.671(55.28), 647.51(19.4), 863.955(15.6)
642.35 *9*	37.0 *20*	^{236}Pa(9.1 m)	687.59(9.9), 1762.7(6.0), 1807.8(2.24)
642.35 *9*	0.9	^{236}Np(22.5 h)	687.59(0.250), 538.11(0.0110), 104.234
• 642.35 *9*		^{236}Np(1.54×10^5 y)	160.308(32), 104.234(7.2), 45.242(0.13)
• 642.35 *9*	0.000013 *1*	^{240}Pu(6563 y)	45.242(0.0450), 104.234(0.00708), 160.308(0.000402)
642.40 *30*	1.6 *4*	^{105}In(5.07 m)	131.37(41), 260.21(15.7), 604.11(9.2)
• 642.40 *2*	0.0046 *14*	^{154}Eu(8.593 y)	123.071(40.79), 1274.436(35.19), 723.304(20.22)
642.40 *2*	0.68 *14*	^{154}Tb(9.4 h)	123.071(30), 247.925(22.1), 540.18(20)
642.40 *2*	4.1 *3*	^{154}Tb(22.7 h)	247.925(79), 346.643(69), 1419.81(46)
642.50 *25*	0.44 *9*	^{157}Tm(3.63 m)	455.00(9.3), 385.5(8.8), 348.40(8.4)
642.5 *2*	†39 *5*	^{171}Ho(53 s)	903.3(†100), 198.6(†88), 279.2(†60)
642.56 *20*	0.058 *12*	^{118}In(4.45 m)	1229.68(96), 1050.69(81.0), 683.08(54.3)
642.59 *21*	0.48 *16*	^{122}In(10.3 s)	1140.55(98), 1001.58(50.7), 1190.58(20.5)
642.60 *14*	0.077 *8*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
642.60 *20*	0.15 *3*	^{195}Tl(1.16 h)	563.52(10.5), 884.47(10.0), 1363.88(8.4)
• 642.65 *8*	0.056 *9*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
642.7 *2*	†0.45 *12*	^{158}Ho(11.3 m)	218.21(†100.0), 98.91(†70), 945.7(†37)
642.7 *2*	†25 *2*	^{174}Er(3.3 m)	100.4(†100), 708.4(†93), 766.9(†92)
642.7 *2*		^{191}Tl(5.22 m)	452.6(†100), 470.1(†98), 391.6(†96)
642.7 *8*	0.8 *2*	^{200}Bi(36.4 m)	1026.5(100), 462.34(98), 419.70(91)
642.71 *39*	†7.5 *15*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
• 642.719 *5*	0.217 *4*	^{131}I(8.02070 d)	364.489(81.7), 636.989(7.17), 284.305(6.14)
642.77 *5*	1.07 *5*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
642.79 *4*	1.24 *6*	^{101}Mo(14.61 m)	191.92(19), 590.91(16.4), 1012.47(12.8)
642.79 *8*	0.84 *10*	^{194}Pb(12.0 m)	581.82(18.8), 1519.45(16.4), 203.82(16.2)
642.8 *6*	0.094 *9*	^{105}Cd(55.5 m)	961.84(4.69), 346.870(4.20), 1302.459(3.98)
642.8 *4*	0.46 *21*	^{154}Ho(11.76 m)	334.6(84), 412.4(15.0), 873.4(12.5)
642.8	0.29	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
642.8 *5*	0.15 *3*	^{187}Au(8.4 m)	1331.81(7.0), 1408.23(3.06), 914.73(3.02)
642.85 *8*	0.10	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
• 642.877 *9*	7.59×10^{-5} *18*	^{169}Yb(32.026 d)	63.12077(44.2), 197.95788(35.8), 177.21402(22.16)
642.9 *5*	0.46 *12*	^{93}Ru(10.8 s)	1396.2(39), 1111.2(26.2), 2039.1(9.2)
642.90 *20*	0.069 *14*	^{159}Tm(9.13 m)	38.35(5.8), 84.8(5.8), 271.30(5.1)
642.9 *10*	0.023 *12*	^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
643	>0.019	^{90}Nb(14.60 h)	1129.224(92.7), 2318.968(82.03), 141.178(66.8)
643.0 *5*	0.16 *4*	^{125}Sn(9.52 m)	332.10(97.2), 1404.0(0.70), 589.6(0.20)
643.0	†0.5	^{131}Sn(56.0 s)	1226.03(†100), 450.03(†90), 798.50(†86)
643.0 *4*	1.49 *10*	^{144}La(40.8 s)	397.440(94.3), 541.20(39.2), 844.8(22.3)
643.0 *3*	0.082 *22*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
• 643.04 *3*	0.226 *11*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
643.1 *5*	0.30 *8*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
643.1 *5*	0.37 *8*	^{126}Ba(100 m)	233.6(19.6), 257.6(7.6), 241.0(6.0)
643.11 *13*	0.074 *9*	^{151}Nd(12.44 m)	116.80(43.4), 255.68(16.4), 1180.89(14.8)
643.18 *23*	0.092 *22*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
643.2 *3*	0.97 *5*	^{60}Cu(23.7 m)	1332.501(88), 1791.6(45.4), 826.06(21.7)
643.2 *1*	3.5 *3*	^{166}Lu(1.41 m)	228.12(15), 102.38(13), 285.07(11.0)
643.2 *4*	5.3 *4*	^{179}Yb(8.0 m)	592.1(75), 612.3(35.4), 381.4(9.6)
643.2 *6*	†6.4 *10*	^{206}Rn(5.67 m)	497.7(†100), 324.5(†96), 386.6(†61)
643.2 *2*	0.027 *8*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
• 643.2 *3*	0.013 *5*	^{249}Cf(351 y)	388.16(66), 333.37(14.6), 252.80(2.50)
643.26 *13*	1.91 *7*	^{172}Ta(36.8 m)	214.02(46), 95.23(17.5), 1109.27(12.4)
643.4 *2*	1.24 *23*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)

$E_\gamma(\Delta E)$	$I_\gamma(\Delta I)$	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
643.4 *2*	†15 *2*	^{227}Rn(22.5 s)	162.14(†100), 739.2(†65), 686.2(†62)
643.43 *12*	0.42 *6*	^{100}Y(735 ms)	212.531(73), 118.59(15.4), 665.98(7.7)
643.5	6.3 *5*	^{40}Cl(1.35 m)	1460.830(79), 2839.8(30.4), 2621.5(15.4)
• 643.5 *8*	†0.0046	^{101}Rh(4.34 d)	306.85(†115), 545.06(†6.1), 127.23(†0.85)
643.50 *5*	0.64 *4*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
643.5 *5*	0.050 *21*	^{140}Cs(63.7 s)	602.345(71.1), 908.25(11.6), 1200.25(6.39)
643.5 *20*	0.19 *4*	^{208}Rn(24.35 m)	426.78(7.07), 251.05(5.02), 350.026(3.34)
• 643.5 *5*	>0.019	^{232}Pa(1.31 d)	969.315(41.6), 894.351(19.8), 150.059(10.8)
• 643.5 *5*	0.00024	^{236}Pu(2.858 y)	47.574(0.066), 108.96(0.012), 166.0(0.00066)
643.6 *15*	0.0019 *9*	^{81}Rb(30.5 m)	49.56(0.78), 643.6(0.115), 1194.9(0.112)
643.6 *1*	0.115 *5*	^{81}Rb(30.5 m)	49.56(0.78), 1194.9(0.112), 549.02(0.106)
643.6 *3*	†3.2 *7*	^{103}Nb(1.5 s)	102.64(†100), 641.1(†55), 538.5(†34.0)
643.6	1.9	^{111}Sb(75 s)	154.48(71), 489.1(42), 1032.6(10.0)
643.6	0.39	^{145}Ba(4.31 s)	96.6(17), 91.9(7), 65.9(5)
643.6 *3*	0.45 *7*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
643.62 *30*	0.231 *12*	^{79}Rb(22.9 m)	688.1(23), 182.77(19.2), 143.41(13.9)
643.65 *5*	14.7 *9*	^{128}La(5.0 m)	284.00(87), 479.24(54), 600.5(10.5)
643.7 *3*	3.0	^{113}Pd(93 s)	95.74(3.3), 739.63(2.4), 222.06(1.2)
643.7 *3*	†1.06 *11*	^{120}Cs(64 s)	322.4(†100), 473.5(†30), 553.4(†19.1)
643.7	†71 *5*	^{202}Po(44.7 m)	688.6(†1000), 316.0(†286), 165.7(†174)
643.73 *8*	1.67 *15*	^{116}Ag(2.68 m)	513.39(76), 2478.5(12), 699.58(11)
643.75 *9*	1.55 *8*	^{143}La(14.2 m)	620.3(2.34), 621.4(1.52), 798.14(1.18)
643.79 *16*	0.57 *14*	^{181}Re(19.9 h)	365.57(56), 360.70(20), 639.30(6.4)
643.8 *1*	0.21 *4*	^{119}I(19.1 m)	257.52(87), 635.86(2.69), 320.53(2.17)
643.8 *3*	0.071 *10*	^{163}Yb(11.05 m)	860.28(10.1), 63.62(6.5), 123.21(1.98)
643.8 *2*	0.457 *20*	^{210}At(8.1 h)	1181.39(99.3), 245.31(79), 1483.39(46.5)
643.8 *1*	†100	^{210}Fr(3.18 m)	817.6(†60), 203.1(†35), 901.3(†30)
643.9 *3*	0.0118 *9*	^{73}Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
643.9 *8*	0.032 *4*	^{107}Rh(21.7 m)	302.77(66), 392.47(8.8), 312.21(4.8)
643.9 *4*	0.47 *10*	^{136}Nd(50.65 m)	108.90(32), 40.2(18.9), 574.8(10.4)
• 643.90 *20*	0.0157 *14*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
643.90 *10*	0.0227 *11*	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
643.9 *3*	7.8 *11*	^{180}Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
644.0 *1*	1.01 *8*	^{96}Rb(0.199 s)	815.0(78.00), 692.0(8.0), 813.2(7.0)
644.0 *1*	1.2	^{97}Rb(169.9 ms)	815.0(100), 692.0(16.5), 414.3(15.0)
644.0 *6*	0.11 *3*	^{99}Rh(4.7 h)	340.71(70), 617.8(12.0), 1261.2(11)
644.0 *5*	0.74 *14*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
644.01 *4*	84	^{119}Te(16.03 h)	699.85(10.1), 1749.65(3.95), 1413.19(1.09)
644.07 *9*	0.266 *15*	^{143}Ba(14.33 s)	211.475(25), 798.79(15.6), 980.45(11.55)
644.1 *2*	†1.69 *29*	^{192}Tl(9.6 m)	422.8(†100), 634.8(†75.9), 786.3(†31.7)
644.16 *10*	4.57 *12*	^{96}Rh(9.90 m)	832.57(100), 685.49(95.7), 631.71(74.5)
644.18 *6*	0.0705 *23*	^{96}Y(5.34 s)	1750.42(2.350), 2225.93(0.322), 475.33(0.188)
644.18 *6*	10	^{96}Y(9.6 s)	1750.42(89), 915.0(60), 617.1(56)
644.19 *6*	0.23 *3*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
644.2 *2*	2.3 *3*	^{123}Cs(5.94 m)	97.3(23), 596.7(10.1), 83.3(4.1)
644.2 *2*	0.60 *5*	^{141}Xe(1.73 s)	909.23(24.0), 118.705(16.1), 105.937(9.8)
644.2 *5*		^{197}Ir(5.8 m)	469.72(†100), 430.56(†61), 815.92(†45)
• 644.2 *5*	†0.0031 *12*	^{227}Th(18.72 d)	235.971(†813), 50.13(†528), 256.25(†463)
644.21 *30*	0.026 *5*	^{165}Yb(9.9 m)	80.11(49), 68.86(9.1), 1090.28(4.4)
• 644.277 *5*	0.0121 *21*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
644.29 *6*	0.63 *5*	^{189}Pt(10.87 h)	721.41(9.3), 94.33(7.6), 568.84(7.1)
644.38 *6*	0.17 *6*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
• 644.38 *6*	0.0058 *8*	^{152}Eu(13.542 y)	121.7824(28.4), 1408.011(20.87), 964.131(14.34)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
644.4 *4*	†8 *2*	^{134}Pr(11 m)	293.5(†100), 299.0(†100), 1196.8(†100)
644.4 *4*	†8 *2*	^{134}Pr(17 m)	1964.1(†100), 1904.3(†100), 1579.9(†100)
644.4 *4*	†18 *3*	^{163}Lu(238 s)	163.08(†100), 54.00(†88), 396.34(†63)
644.4 *5*	0.0077 *7*	^{233}Np(36.2 m)	312.17(0.7), 298.89(0.44), 546.9(0.280)
644.42 *30*	0.09 *3*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
644.45 *4*	0.67 *10*	^{202}Bi(1.72 h)	960.67(99), 422.18(83.7), 657.49(60.6)
644.5 *2*	0.017 *17*	^{117}Cd(2.49 h)	273.349(28), 1303.27(18.4), 344.459(17.9)
• 644.55 *7*	11.1 *5*	^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 443.37(10.5)
644.55 *7*	†>3.1×10^2	^{105}Ag(7.23 m)	319.14(†63000), 306.25(†12800), 442.37(†5900)
644.56 *17*	0.205 *21*	^{81}Sr(22.3 m)	153.54(33.8), 147.76(30.1), 443.34(17.5)
644.58 *2*	0.38 *4*	^{147}La(4.015 s)	117.718(12), 186.320(6.48), 438.30(5.04)
644.6 *2*	3.43 *13*	^{97}Rb(169.9 ms)	167.1(26), 585.2(21.0), 600.5(10.6)
644.6 *3*	10.6 *11*	^{104}Sn(20.8 s)	132.7(56), 912.6(42), 401.2(16.2)
644.61 *8*	3.1 *4*	^{79}Ge(39.0 s)	230.62(61), 542.27(32.6), 755(18)
• 644.61 *5*	0.139 *7*	^{166}Ho(1.20×10^3 y)	184.410(72.6), 810.276(58.08), 711.683(55.32)
644.684 *8*	0.084 *7*	^{199}Pt(30.80 m)	542.993(15), 493.772(5.59), 317.056(4.95)
644.7 *2*	†5.3 *7*	^{131}Ce(10.3 m)	169.42(†100), 414.25(†68), 119.18(†44)
644.7 *4*	0.28 *9*	^{161}Tm(33 m)	45.54(5.00), 1648.1(9.50), 84.40(9.4)
644.74 *4*	1.97 *5*	^{133}Ce(4.9 h)	477.22(39), 510.36(20.7), 58.39(19.2)
644.78 *9*	0.27 *3*	^{93}Kr(1.286 s)	253.42(41.2), 323.89(24.1), 266.83(20.6)
644.78 *10*	0.042 *3*	^{151}Tb(17.609 h)	287.357(28.3), 251.863(26.3), 108.088(24.3)
644.8 *10*	2.2 *3*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
644.8 *2*	6.4 *7*	^{113}Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
644.8 *5*	0.6	^{136}Te(17.5 s)	2077.9(22), 333.99(19), 578.75(18)
644.80 *7*	†63 *4*	^{142}Xe(1.22 s)	571.83(†100), 657.05(†79), 538.24(†77)
644.8 *2*	1.7	^{145}La(24.8 s)	70.0(11), 355.8(3.8), 118.2(3.6)
644.82 *6*	0.0143 *8*	^{62}Zn(9.186 h)	596.56(26), 40.84(25.5), 548.35(15.3)
644.830 *14*	3.4 *4*	^{98}Nb(2.86 s)	787.374(13), 1023.73(6.1), 1432.22(3.4)
644.830 *14*	5.60 *19*	^{98}Nb(51.3 m)	787.374(93), 722.645(73.8), 1168.830(17.8)
644.83 *16*	†13.5 *10*	^{159}Yb(1.58 m)	166.16(†500), 177.12(†159), 390.20(†113)
• 644.86 *6*	0.118 *9*	^{172}Lu(6.70 d)	1093.657(62.5), 900.724(29.8), 181.528(20.6)
644.86 *8*	1.0	^{176}Ta(8.09 h)	1159.28(25), 88.34(12), 1224.93(6)
644.86 *20*	0.312 *24*	^{205}At(26.2 m)	719.30(31), 669.41(8.6), 628.88(5.6)
644.9	1.4	^{133}Pr(6.5 m)	134.3(14), 74.0(10), 315.6(10)
644.9 *4*	0.45 *9*	^{161}Yb(4.2 m)	78.20(34), 599.88(25.9), 631.45(13.9)
644.9 *1*	0.49 *3*	^{228}Fr(39 s)	473.7(10.2), 474.0(7.6), 410.40(6.3)
644.9 *2*	0.56 *6*	^{235}Th(7.1 m)	417.0(2), 727.2(0.87), 696.1(0.64)
645.0 *6*	0.13 *7*	^{103}Cd(7.3 m)	1461.81(12), 1448.70(5.55), 1079.90(5.44)
645.0 *3*	5.6 *17*	^{180}Ir(1.5 m)	276.4(56), 132.2(38.1), 699.0(13.4)
645.00 *22*	†2.9 *6*	^{183}Hg(9.4 s)	60.5(†100), 159.91(†21), 172.70(†17)
645.0 *3*	0.42 *5*	^{201}Au(26 m)	542.6(1.2), 517.0(0.83), 613.2(0.77)
645.05 *4*	0.312 *23*	^{132}La(4.8 h)	464.55(76), 567.14(15.7), 1909.91(9.0)
645.13 *8*	100	^{129}Sn(2.23 m)	80.5(6.6), 913.2(5.0), 66.4(5.0)
645.157 *16*	1.17 *4*	^{194}Ir(19.15 h)	328.455(13.1), 293.545(2.55), 938.70(0.599)
• 645.157 *16*	2.11 *11*	^{194}Au(38.02 h)	328.455(60), 293.545(10.2), 1468.91(6.3)
645.2 *5*	0.86 *23*	^{191}Hg(50.8 m)	252.5(57), 420.1(18.6), 578.6(17.6)
645.20 *25*	†13 *3*	^{194}Tl(33.0 m)	428.0(†100), 636.5(†23), 1040.3(†5.6)
• 645.25 *9*	0.062 *3*	^{97}Ru(2.9 d)	215.718(86), 324.48(10.79), 569.31(0.873)
645.28 *2*	0.50 *10*	^{145}Cs(0.594 s)	175.36(20), 198.93(10.9), 112.46(10.71)
645.3 *1*	0.20 *3*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
• 645.315 *2*	1.460 *10*	^{149}Gd(9.28 d)	149.735(48.2), 298.634(28.6), 346.651(23.9)
645.4 *1*	0.87 *9*	^{134}Te(41.8 m)	767.20(29.0), 210.465(22.3), 277.951(20.9)
645.40 *5*	†52.7 *23*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
645.40 *5*	24.7 *11*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
645.4 *3*	†1.00 *7*	^{187}Pb(15.2 s)	299.5(†100), 617.2(†2.67), 493.6(†2.67)
645.4 *3*		^{201}Au(26 m)	542.6(1.2), 517.0(0.83), 613.2(0.77)
645.41 *12*	0.152 *17*	^{197}Tl(2.84 h)	425.84(12.9), 152.22(7.2), 1411.34(4.5)
645.5	0.15	^{147}Ba(0.893 s)	167.4(11), 105.2(4.8), 196.1(4.8)
645.5 *3*	0.55 *8*	^{181}Au(11.4 s)	198.60(4.4), 2022.4(4.2), 79.40(4.2)
645.5 *4*	†23 *2*	^{183}Pt(43 s)	629.3(†100), 316.7(†53), 328.8(†36)
645.5 *2*	2.11 *18*	^{188}Tl(71 s)	412.7(88), 592.0(61), 504.2(23.3)
• 645.50 *10*	0.0052 *9*	^{224}Ra(3.66 d)	240.987(3.97), 292.70(0.0060), 422.04(0.0029)
645.50 *10*	†6 *1*	^{220}At(224 s)	240.987(†100), 292.70(†39), 422.04(†23)
• 645.58 *7*	0.352 *14*	^{206}Po(8.8 d)	1032.26(32.9), 511.36(24.1), 286.410(23.8)
645.6 *5*	0.10 *6*	^{111}Pd(5.5 h)	70.44(8.3), 391.25(5.4), 632.80(3.6)
645.6 *1*	0.39 *4*	^{133}Te(12.5 m)	312.072(62), 407.63(27.1), 1333.21(10.67)
645.6 *1*	0.035 *6*	^{145}Ce(3.01 m)	724.33(59), 62.54(13.33), 1148.03(9.15)
645.6 *4*	0.10 *5*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
645.7 *3*	0.66 *4*	^{137}Pm(2.4 m)	177.5(40.29), 108.6(35), 233.6(29.57)
645.7 *3*	0.95 *9*	^{152}Pm(7.52 m)	244.6989(78), 121.7824(45), 340.48(31.3)
645.7 *3*	0.36 *3*	^{159}Eu(18.1 m)	67.8(19), 78.6(9.1), 95.7(7.0)
645.71 *16*	0.135 *14*	^{162}Tm(21.70 m)	102.00(17.5), 798.68(8.4), 227.52(7)
645.775 *15*	0.107 *14*	^{168}Ho(2.99 m)	741.356(36.6), 821.164(34.5), 815.990(18.6)
• 645.775 *15*	1.425 *10*	^{168}Tm(93.1 d)	198.241(52.39), 815.990(48.99), 447.515(23.05)
• 645.80 *20*	0.048 *5*	^{83}Sr(32.41 h)	762.65(30), 381.53(14.1), 418.37(4.41)
• 645.80 *20*	0.0134 *7*	^{170}Lu(2.00 d)	84.2551(4.256), 1280.25(3.450), 2041.88(1.434)
645.8 *4*	1.3 *3*	^{185}Au(4.25 m)	310.6(13), 243.1(6.6), 77.7(6)
• 645.855 *2*	7.38 *5*	^{124}Sb(60.20 d)	602.730(97.8), 1690.980(47.3), 722.786(10.76)
645.855 *2*	25	^{124}Sb(93 s)	602.730(25), 498.3(25), 1101.0(0.50)
• 645.855 *2*	0.94 *3*	^{124}I(4.18 d)	602.730(60), 1690.980(10.41), 722.786(9.98)
645.896 *4*		^{235}Pa(24.5 m)	652.053, 659.3, 637.717
• 645.896 *4*	1.52×10^{-5} *3*	^{239}Pu(24110 y)	51.624(0.007100), 38.661(0.000500), 129.297(0.00631)
645.9 *10*	9.2 *11*	^{86}Y(14.74 h)	1076.64(83), 627.72(32.6), 1153.01(30.5)
645.9 *5*	†4.6	^{154}Nd(25.9 s)	151.703(†800), 799.55(†600), 180.693(†510)
645.925 *10*	0.15 *3*	^{75}Br(96.7 m)	286.572(88), 141.3147(6.6), 427.883(4.4)
• 646.0 *4*		^{105}Ag(41.29 d)	344.520(41), 280.41(30.2), 644.55(11.1)
646.0 *5*	0.09 *4*	^{109}Ru(34.5 s)	206.29(22.0), 225.98(19.6), 1929.05(13.7)
646.0 *3*	0.20 *4*	^{123}Cd(1.82 s)	1165.86(25.7), 1027.45(22.6), 2102.81(12.5)
• 646.0 *2*	1.0	^{126}Sb(12.46 d)	695.03(100), 666.331(100), 414.81(83.3)
646.0 *20*	0.019 *4*	^{145}Gd(23.0 m)	1757.9(34.2), 1880.6(32.6), 1041.8(9.9)
646.02 *5*	2.74 *17*	^{106}Rh(131 m)	511.842(85), 1045.83(30.4), 717.24(28.9)
• 646.02 *5*	1.46 *10*	^{106}Ag(8.28 d)	511.842(88), 1045.83(29.6), 717.24(28.9)
• 646.03 *5*	0.065 *3*	^{205}Bi(15.31 d)	1764.36(1.368), 703.44(31), 987.62(0.585)
646.1 *7*	0.59 *4*	^{99}Pd(21.4 m)	136.00(73), 263.60(15.2), 673.38(6.9)
646.1 *3*	6.2 *6*	^{127}In(1.09 s)	1597.7(49), 805.1(5.6), 1048.6(5.3)
646.1 *3*	>0.06	^{146}La(6.27 s)	258.47(64), 924.58(7.45), 702.28(6.43)
646.11 *15*	0.81 *11*	^{125}Cd(0.57 s)	1027.53(25.8), 1173.16(25.1), 736.65(12.6)
• 646.116 *9*	78.0 *8*	^{185}Os(93.6 d)	874.813(6.29), 880.523(5.17), 717.424(3.94)
• 646.14 *15*	0.031 *9*	^{188}Ir(41.5 h)	155.032(29.7), 2214.62(18.7), 632.99(18)
646.17	†100 *4*	^{37}P(2.31 s)	1582.9(†74.4), 2254.1(†8.2), 751.32(†7.2)
646.17 *8*	0.0023	^{239}U(23.45 m)	74.664(48), 43.533(4.14), 662.24(0.18)
646.184 *11*	0.026 *6*	^{200}Au(48.4 m)	367.943(19), 1225.479(10.7), 1262.950(3.12)
646.20 *10*	0.66 *9*	^{118}Ag(3.76 s)	487.77(60), 677.13(11.9), 2788.7(11.8)
646.20 *10*	0.127 *16*	^{118}Ag(2.0 s)	487.77(57), 677.13(53), 1058.39(14.8)
646.2 *7*	0.14 *10*	^{142}La(91.1 m)	641.285(47), 2397.8(13.3), 2542.7(10.00)
646.2 *7*	0.151 *18*	^{167}Lu(51.5 m)	29.66(14.4), 239.22(8.6), 213.19(3.6)
646.2 *2*	1.24 *13*	^{185}Ir(14.4 h)	254.4(13.3), 1828.8(10), 60.0(5.7)
646.2 *3*	0.068 *13*	^{226}Fr(48 s)	253.73(22.3), 186.05(16.3), 253.9(2.5)

E_γ(ΔE)	I_γ(ΔI)	Decay Parent	Associated γ-rays: $E_\gamma(I_\gamma)$
• 646.22 *3*	6.28 *3*	^{156}Eu(15.19 d)	811.79(9.70), 88.9667(8.4), 1230.68(7.98)
646.25 *14*	1.18 *14*	^{105}Tc(7.6 m)	143.26(16), 107.945(14.1), 321.50(11.1)
646.27 *24*	2.2 *4*	^{54}V(49.8 s)	834.848(97.1), 989.01(80.1), 2259.35(45.6)
646.3 *2*	†10.0 *9*	^{160}Ho(5.02 h)	728.18(†100), 879.383(†65.9), 962.317(†59.1)
646.3 *2*	4.7 *4*	^{160}Ho(25.6 m)	728.18(46.9), 879.383(26.6), 962.317(25.6)
646.5	†0.6	^{131}Pr(1.53 m)	266.13(†100), 72.82(†64), 387.56(†38)
646.50 *7*	0.622 *11*	^{139}Xe(39.68 s)	218.59(56), 296.53(21.7), 174.97(11.3)
646.5 *7*	0.33 *3*	^{199}Bi(27 m)	560.1(22.0), 424.85(22), 841.7(11)
646.5 *1*	0.113 *10*	^{234}Pa(6.70 h)	131.30(18), 946.00(13.4), 883.24(9.6)
646.51 *6*	0.069 *10*	^{153}Dy(6.4 h)	80.723(11.10), 213.754(10.90), 99.659(10.51)
646.6 *3*	0.79 *22*	^{113}Te(1.7 m)	814.4(22), 1018.1(13.0), 1181.0(12.3)
646.60 *5*	0.0107 *13*	^{127}Cs(6.25 h)	411.95(62.8), 124.70(11.37), 462.31(5.07)
646.6 *3*	100	^{148}Tm(0.7 s)	877.4(72), 1002.9(55), 257.5(52)
646.60 *20*	0.15	^{186}Ta(10.5 m)	197.93(50), 214.87(42.3), 510.82(37.5)
646.6 *1*	0.72 *11*	^{236}Th(37.5 m)	110.8(4.2), 196.0(0.69), 340.1(0.67)
646.61	0.09 *3*	^{44}K(22.13 m)	1157.031(58), 2150.76(22.7), 2518.95(9.69)
646.66 *7*	1.05 *10*	^{141}Cs(24.94 s)	48.53(7.90), 561.63(4.7), 1194.02(3.95)
646.7 *3*	0.0009 *5*	^{73}Se(39.8 m)	67.03(2.59), 253.70(2.356), 84.0(2.03)
646.75 *4*	0.008	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
646.75	0.015	^{166}Tm(7.70 h)	778.817(18.9), 2052.36(17.2), 184.410(16.1)
• 646.8 *1*	3.8×10^{-6} *19*	^{113}Sn(115.09 d)	391.690(64), 255.06(1.82), 638.03(0.00095)
646.8 *3*	0.40 *10*	^{121}Cs(155 s)	153.9(15.2), 239.6(7.7), 427.1(3.63)
646.8 *3*	0.31 *8*	^{121}Cs(122 s)	179.4(30.2), 196.0(24.1), 459.7(12.0)
• 646.8 *9*	0.077 *8*	^{147}Gd(38.06 h)	229.32(63), 396.00(34.3), 929.01(20.2)
• 646.8 *3*	0.025 *9*	^{153}Tb(2.34 d)	212.038(31.0), 170.504(6.8), 109.758(6.4)
646.82 *32*	0.12 *4*	^{137}Nd(38.5 m)	75.5(17.0), 580.6(13), 306.60(10.0)
646.88 *35*	0.018 *4*	^{137}Pr(1.28 h)	836.7(1.8), 433.9(1.28), 514.0(1.08)
• 646.9 *5*	0.010 *5*	^{148}Eu(54.5 d)	550.284(98.5), 629.987(71.9), 611.293(20.5)
646.9 *3*	0.0007 *4*	^{152}Eu(9.274 h)	344.281(2.44), 1314.67(0.956), 970.38(0.604)
646.94 *7*	†13 *3*	^{164}Tm(2.0 m)	91.40(†1500), 1154.66(†366), 768.91(†279)
646.94 *7*	0.173 *19*	^{164}Tm(5.1 m)	208.08(14.6), 314.97(10), 240.49(7.5)
647.02	0.15	^{203}Bi(11.76 h)	820.3(30), 825.2(14.6), 896.9(13)
647.03 *9*	0.046 *5*	^{131}La(59 m)	108.081(25.0), 417.783(18.0), 365.162(16.9)
647.1 *8*	0.050 *12*	^{127}Ba(12.7 m)	180.8(12), 114.8(9.3), 66.06(2.12)
647.1 *2*	†16	^{139}I(2.29 s)	527.7(†100), 571.2(†98), 536.6(†67)
647.1	0.066 *10*	^{141}Pm(20.90 m)	1223.26(4.74), 886.22(2.44), 193.68(1.61)
647.2 *5*	0.016 *10*	^{138}Xe(14.08 m)	258.411(31.5), 434.562(20.3), 1768.26(16.7)
647.2	92 *7*	^{152}Ho(49.5 s)	613.8(88.4), 683.3(88), 492.9(72.5)
647.2 *1*	17 *6*	^{152}Ho(49.5 s)	647.2(92), 613.8(88.4), 683.3(88)
647.2 *5*	1.5 *4*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
647.2 *1*	1.8 *4*	^{207}Rn(9.25 m)	344.53(46), 747.15(14.2), 402.68(11.9)
647.23 *17*	0.0008 *4*	^{187}W(23.72 h)	685.774(27.3), 479.531(21.8), 72.001(11.14)
• 647.272 *17*	0.288 *21*	^{169}Lu(34.06 h)	960.622(23.4), 191.2137(20.6), 1449.74(9.92)
647.3	0.0056 *15*	^{96}Tc(51.5 m)	778.224(1.9), 1200.231(1.08), 480.705(0.311)
647.3 *1*	0.024	^{109}Pd(13.7012 h)	88.04(1.171), 311.4(0.032), 781.4(0.0112)
647.3 *4*	0.089 *11*	^{135}Te(19.0 s)	603.5(37.0), 266.8(10.36), 870.3(7.73)
647.3 *1*	20.5 *18*	^{141}Gd(24.5 s)	351.1(89), 223.9(64), 574.9(51)
647.3 *5*	4.7 *4*	^{164}Tb(3.0 m)	168.838(25.4), 754.80(23.3), 215.07(21)
647.3		^{165}Dy(1.257 m)	515.467(1.53), 361.68(0.534), 153.803(0.242)
647.3 *2*	2.57 *6*	^{177}W(135 m)	115.65(50), 426.98(13.2), 1036.4(10.3)
647.3 *4*	†1.70 *17*	^{182}Ir(15 m)	273.23(†100), 126.79(†77), 236.3(†21.0)
647.3 *4*		^{192}Au(4.94 h)	316.50791(58.0), 295.95827(22.3), 2236.89(5.6)
647.3 *2*	†99 *3*	^{196}Ir(1.40 h)	393.346(†105.2), 521.175(†104), 447.1(†102.1)
647.4 *4*	0.117 *23*	^{69}Cu(2.85 m)	1007.5(23.4), 834.4(13.1), 531.2(6.0)