Results:2 different decay possibilities were found

Dataset #1:

Author: F.G. Kondev Citation:Nuclear Data Sheets 101, 521 (2004)

Parent Nucleus	Parent E(level)	Parent Jπ	Parent $T_{1/2}$	Decay Mode	GS-GS Q-value (keV)	Daughter Nucleus		
$^{209}_{85}$At	0.0	9/2-	5.41 h *5*	α	5757.1 *20*	$^{205}_{83}$Bi	Decay Scheme	ENSDF file

Alphas:

Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
5647 *2*	4.1 % *5*	0.23 *3*

Dataset #2:

Author: J. Chen and F.G. Kondev Citation:Nuclear Data Sheets 126, 373 (2015)

Parent Nucleus	Parent E(level)	Parent Jπ	Parent $T_{1/2}$	Decay Mode	GS-GS Q-value (keV)	Daughter Nucleus		
$^{209}_{85}$At	0.0	9/2-	5.42 h *5*	ε	3483 *5*	$^{209}_{84}$Po	Decay Scheme	ENSDF file

Beta+:

Energy (keV)	End-point energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
442.8 *22*	939 *5*	0.05 % *4*	2.2E-4 *18*

Mean beta+ energy: 4.E+2 keV *5*, total beta+ intensity: 0.05 % *4*, mean beta+ dose: 0 MeV/Bq-s *AP*

Electrons:

	Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
Auger L	8.33	88 % *4*	0.0074 *4*
CE K	11.082 *5*	19 % *3*	0.0021 *3*
CE K	19.99 *10*	0.078 % *16*	1.6E-5 *3*
CE K	58.29 *20*	0.024 % *4*	1.4E-5 *3*
Auger K	59.7	4.6 % *6*	0.0027 *3*
CE L	73.86 *10*	14.6 % *15*	0.0108 *11*
CE M	86.65 *10*	3.9 % *4*	0.0034 *3*
CE L	87.248 *10*	3.4 % *5*	0.0029 *5*
CE N	89.80 *10*	1.00 % *10*	8.9E-4 *9*
CE O	90.71 *10*	0.189 % *19*	1.72E-4 *17*

CE P	90.80 *10*	0.0169 % *17*	1.53E-5 *15*
CE L	96.16 *10*	0.52 % *10*	5.0E-4 *10*
CE M	100.038 *5*	0.80 % *12*	8.0E-4 *12*
CE K	101.89 *10*	28 % *3*	0.028 *3*
CE N	103.192 *4*	0.21 % *3*	2.1E-4 *3*
CE O	104.092 *3*	0.043 % *7*	4.5E-5 *7*
CE P	104.182 *3*	0.0056 % *9*	5.8E-6 *9*
CE M	108.95 *10*	0.14 % *3*	1.5E-4 *3*
CE N	112.10 *10*	0.036 % *7*	4.0E-5 *8*
CE O	113.01 *10*	0.0068 % *14*	7.7E-6 *15*
CE P	113.10 *10*	6.1E-4 % *12*	6.9E-7 *14*
CE L	134.46 *20*	0.062 % *11*	8.3E-5 *15*
CE K	140.49 *10*	0.76 % *14*	0.00107 *20*
CE K	146.085 *18*	0.542 % *21*	7.9E-4 *3*
CE M	147.25 *20*	0.016 % *3*	2.4E-5 *4*
CE N	150.40 *20*	0.0042 % *8*	6.3E-6 *11*
CE O	151.31 *20*	8.0E-4 % *14*	1.21E-6 *22*
CE P	151.40 *20*	7.4E-5 % *13*	1.11E-7 *20*
CE L	178.06 *10*	5.7 % *3*	0.0101 *5*
CE M	190.85 *10*	1.35 % *7*	0.00258 *14*
CE N	194.00 *10*	0.350 % *19*	6.8E-4 *4*
CE O	194.91 *10*	0.072 % *4*	1.40E-4 *7*
CE P	195.00 *10*	0.0089 % *5*	1.74E-5 *10*
CE L	216.66 *10*	0.142 % *13*	3.1E-4 *3*
CE L	222.251 *21*	0.096 % *4*	2.14E-4 *8*
CE K	227.99 *10*	0.0137 % *6*	3.13E-5 *14*
CE M	229.45 *10*	0.034 % *3*	7.7E-5 *7*
CE N	232.60 *10*	0.0087 % *7*	2.02E-5 *17*
CE O	233.51 *10*	0.00180 % *16*	4.2E-6 *4*
CE P	233.60 *10*	2.3E-4 % *3*	5.4E-7 *6*
CE M	235.041 *18*	0.0227 % *9*	5.34E-5 *21*
CE N	238.195 *18*	0.00580 % *23*	1.38E-5 *5*
CE O	239.095 *18*	0.00118 % *5*	2.82E-6 *11*
CE P	239.185 *18*	1.40E-4 % *6*	3.36E-7 *13*
CE K	295.69 *10*	0.089 % *12*	2.6E-4 *4*
CE L	304.16 *10*	0.00237 % *11*	7.2E-6 *3*
CE M	316.95 *10*	5.6E-4 % *3*	1.76E-6 *8*
CE N	320.10 *10*	1.42E-4 % *7*	4.54E-7 *21*
CE O	321.01 *10*	2.90E-5 % *13*	9.3E-8 *4*
CE P	321.10 *10*	3.53E-6 % *16*	1.13E-8 *5*
CE L	371.86 *10*	0.0162 % *15*	6.0E-5 *6*
CE M	384.65 *10*	0.0038 % *4*	1.47E-5 *14*

CE N	387.80 *10*	9.9E-4 % *9*	3.8E-6 *3*
CE O	388.71 *10*	2.06E-4 % *19*	8.0E-7 *7*
CE P	388.80 *10*	2.6E-5 % *3*	1.01E-7 *11*
CE K	451.89 *10*	1.69 %	0.00764
CE K	457.89 *10*	0.089 % *4*	4.09E-4 *17*
CE K	459.39 *20*	0.117 % *16*	5.4E-4 *7*
CE K	461.49 *20*	0.0103 % *16*	4.7E-5 *8*
CE K	503.10 *10*	0.023 % *23*	1.1E-4 *11*
CE K	503.10 *10*	0.003 % *3*	1.3E-5 *14*
CE L	528.06 *10*	0.523 %	0.00276
CE L	534.06 *10*	0.0273 % *11*	1.46E-4 *6*
CE L	535.56 *20*	0.020 % *3*	1.09E-4 *14*
CE K	537.20 *10*	0.0385 % *16*	2.07E-4 *9*
CE L	537.66 *20*	0.0031 % *5*	1.7E-5 *3*
CE M	540.85 *10*	0.1307 %	7.07E-4
CE N	544.00 *10*	0.0336 %	1.83E-4
CE O	544.91 *10*	0.00673 %	3.67E-5
CE P	545.00 *10*	7.50E-4 %	4.09E-6
CE M	546.85 *10*	0.0068 % *3*	3.73E-5 *15*
CE M	548.35 *20*	0.0048 % *6*	2.6E-5 *3*
CE N	550.00 *10*	0.00175 % *7*	9.6E-6 *4*
CE M	550.45 *20*	7.8E-4 % *12*	4.3E-6 *7*
CE O	550.91 *10*	3.52E-4 % *14*	1.94E-6 *8*
CE P	551.00 *10*	3.92E-5 % *16*	2.16E-7 *9*
CE N	551.50 *20*	0.00124 % *16*	6.8E-6 *9*
CE O	552.41 *20*	2.6E-4 % *3*	1.43E-6 *18*
CE P	552.50 *20*	3.3E-5 % *4*	1.84E-7 *24*
CE N	553.60 *20*	2.0E-4 % *3*	1.11E-6 *18*
CE O	554.51 *20*	4.0E-5 % *6*	2.2E-7 *4*
CE P	554.60 *20*	4.5E-6 % *7*	2.5E-8 *4*
CE K	572.99 *10*	0.026 % *3*	1.47E-4 *16*
CE L	579.26 *10*	0.004 % *4*	2.2E-5 *22*
CE L	579.26 *10*	4E-4 % *5*	3E-6 *3*
CE M	592.05 *10*	1.1E-4 % *11*	6E-7 *7*
CE M	592.05 *10*	9E-4 % *9*	5E-6 *5*
CE N	595.20 *10*	3E-5 % *3*	1.6E-7 *17*
CE N	595.20 *10*	2.3E-4 % *23*	1.4E-6 *14*
CE O	596.11 *10*	5E-5 % *5*	3E-7 *3*
CE O	596.11 *10*	6E-6 % *6*	3E-8 *3*
CE P	596.20 *10*	7E-7 % *8*	4E-9 *4*
CE P	596.20 *10*	6E-6 % *6*	4E-8 *4*
CE L	613.36 *10*	0.0066 % *3*	4.04E-5 *17*

CE M	626.15 *10*	0.00155 % *7*	9.7E-6 *4*
CE N	629.30 *10*	3.99E-4 % *17*	2.51E-6 *11*
CE O	630.21 *10*	8.4E-5 % *4*	5.26E-7 *23*
CE P	630.30 *10*	1.08E-5 % *5*	6.8E-8 *3*
CE L	649.16 *10*	0.0064 % *4*	4.2E-5 *3*
CE M	661.95 *10*	0.00157 % *11*	1.04E-5 *7*
CE N	665.10 *10*	4.0E-4 % *3*	2.68E-6 *18*
CE O	666.01 *10*	8.2E-5 % *5*	5.4E-7 *4*
CE P	666.10 *10*	9.5E-6 % *8*	6.3E-8 *5*
CE K	688.80 *10*	0.765 % *25*	0.00527 *17*
CE K	697.10 *10*	3 % *3*	0.018 *18*
CE K	722.49 *10*	0.0061 % *18*	4.4E-5 *13*
CE K	761.30 *20*	0.0165 % *14*	1.26E-4 *11*
CE L	764.96 *10*	0.177 % *6*	0.00136 *4*
CE K	770.80 *10*	0.045 % *10*	3.5E-4 *8*
CE L	773.26 *10*	0.5 % *5*	0.004 *4*
CE M	777.75 *10*	0.0432 % *14*	3.36E-4 *11*
CE N	780.90 *10*	0.0111 % *4*	8.7E-5 *3*
CE O	781.81 *10*	0.00226 % *7*	1.76E-5 *6*
CE P	781.90 *10*	2.67E-4 % *9*	2.09E-6 *7*
CE M	786.05 *10*	0.12 % *11*	9E-4 *9*
CE N	789.20 *10*	0.03 % *3*	3E-4 *3*
CE O	790.11 *10*	0.006 % *6*	5E-5 *5*
CE P	790.20 *10*	8E-4 % *8*	7E-6 *6*
CE L	798.66 *10*	0.0011 % *3*	8.6E-6 *23*
CE K	809.90 *10*	0.012 % *3*	9.8E-5 *21*
CE M	811.45 *10*	2.6E-4 % *7*	2.1E-6 *6*
CE N	814.60 *10*	6.6E-5 % *19*	5.4E-7 *15*
CE O	815.51 *10*	1.4E-5 % *4*	1.1E-7 *3*
CE P	815.60 *10*	1.8E-6 % *5*	1.4E-8 *4*
CE L	837.46 *20*	0.00280 % *24*	2.35E-5 *20*
CE L	846.96 *10*	0.0080 % *15*	6.8E-5 *13*
CE M	850.25 *20*	6.6E-4 % *6*	5.6E-6 *5*
CE N	853.40 *20*	1.69E-4 % *15*	1.44E-6 *12*
CE O	854.31 *20*	3.5E-5 % *3*	3.0E-7 *3*
CE P	854.40 *20*	4.6E-6 % *4*	3.9E-8 *3*
CE M	859.75 *10*	0.0019 % *3*	1.6E-5 *3*
CE N	862.90 *10*	4.7E-4 % *8*	4.1E-6 *7*
CE O	863.81 *10*	1.01E-4 % *19*	8.7E-7 *16*
CE P	863.90 *10*	1.29E-5 % *23*	1.12E-7 *20*
CE L	886.06 *10*	0.0020 % *5*	1.8E-5 *4*
CE K	892.10 *10*	0.00198 % *21*	1.77E-5 *19*

CE M	898.85 *10*	4.8E-4 % *11*	4.3E-6 *10*
CE N	902.00 *10*	1.2E-4 % *3*	1.1E-6 *3*
CE O	902.91 *10*	2.5E-5 % *6*	2.3E-7 *5*
CE P	903.00 *10*	3.2E-6 % *8*	2.9E-8 *7*
CE L	968.26 *10*	3.1E-4 % *3*	3.0E-6 *3*
CE M	981.05 *10*	7.2E-5 % *8*	7.0E-7 *8*
CE N	984.20 *10*	1.83E-5 % *20*	1.80E-7 *19*
CE O	985.11 *10*	3.8E-6 % *4*	3.8E-8 *4*
CE P	985.20 *10*	4.9E-7 % *5*	4.8E-9 *5*
CE K	1010.30 *10*	0.039 % *8*	3.9E-4 *8*
CE K	1043.4 *3*	0.0020 % *3*	2.0E-5 *3*
CE K	1048.20 *10*	0.0025 % *5*	2.6E-5 *6*
CE K	1054.49 *10*	0.0163 % *11*	1.72E-4 *12*
CE K	1055.7 *3*	0.00138 % *16*	1.46E-5 *17*
CE K	1077.49 *10*	0.0131 % *4*	1.41E-4 *5*
CE K	1082.20 *10*	0.0082 % *4*	8.9E-5 *4*
CE L	1086.46 *10*	0.0070 % *13*	7.6E-5 *14*
CE M	1099.25 *10*	0.0017 % *3*	1.8E-5 *4*
CE K	1099.70 *20*	2.7E-4 % *3*	3.0E-6 *3*
CE N	1102.40 *10*	4.3E-4 % *8*	4.7E-6 *8*
CE O	1103.31 *10*	8.6E-5 % *16*	9.5E-7 *18*
CE P	1103.40 *10*	1.13E-5 % *22*	1.25E-7 *24*
CE L	1119.6 *3*	3.6E-4 % *5*	4.1E-6 *5*
CE K	1124.09 *10*	0.008 % *3*	9E-5 *3*
CE L	1124.36 *10*	4.4E-4 % *8*	5.0E-6 *9*
CE L	1130.66 *10*	0.00274 % *19*	3.10E-5 *21*
CE L	1131.9 *3*	2.13E-4 % *25*	2.4E-6 *3*
CE M	1132.4 *3*	8.7E-5 % *12*	9.8E-7 *13*
CE N	1135.5 *3*	2.2E-5 % *3*	2.5E-7 *3*
CE O	1136.4 *3*	4.7E-6 % *6*	5.3E-8 *7*
CE P	1136.5 *3*	6.0E-7 % *8*	6.8E-9 *9*
CE M	1137.15 *10*	1.05E-4 % *20*	1.19E-6 *23*
CE N	1140.30 *10*	2.7E-5 % *5*	3.1E-7 *5*
CE O	1141.21 *10*	5.6E-6 % *10*	6.4E-8 *12*
CE P	1141.30 *10*	7.2E-7 % *14*	8.2E-9 *16*
CE M	1143.45 *10*	6.4E-4 % *4*	7.4E-6 *5*
CE M	1144.7 *3*	4.9E-5 % *6*	5.7E-7 *7*
CE N	1146.60 *10*	1.66E-4 % *11*	1.90E-6 *13*
CE O	1147.51 *10*	3.48E-5 % *24*	4.0E-7 *3*
CE P	1147.60 *10*	4.5E-6 % *3*	5.2E-8 *4*
CE N	1147.8 *3*	1.27E-5 % *15*	1.45E-7 *17*
CE O	1148.7 *3*	2.6E-6 % *3*	3.0E-8 *4*

CE P	1148.8 *3*	3.4E-7 % *4*	3.9E-9 *5*
CE L	1153.66 *10*	0.00248 % *8*	2.87E-5 *10*
CE L	1158.36 *10*	0.00157 % *8*	1.82E-5 *9*
CE M	1166.45 *10*	5.91E-4 % *20*	6.89E-6 *24*
CE K	1169.49 *10*	0.0036 % *10*	4.2E-5 *11*
CE N	1169.60 *10*	1.52E-4 % *5*	1.78E-6 *6*
CE O	1170.51 *10*	3.14E-5 % *11*	3.67E-7 *12*
CE P	1170.60 *10*	3.88E-6 % *13*	4.54E-8 *15*
CE M	1171.15 *10*	3.74E-4 % *19*	4.38E-6 *22*
CE N	1174.30 *10*	9.6E-5 % *5*	1.13E-6 *6*
CE O	1175.21 *10*	1.98E-5 % *10*	2.33E-7 *12*
CE P	1175.30 *10*	2.45E-6 % *12*	2.88E-8 *14*
CE L	1175.86 *20*	4.2E-5 % *5*	4.9E-7 *6*
CE M	1188.65 *20*	9.7E-6 % *11*	1.15E-7 *13*
CE N	1191.80 *20*	2.5E-6 % *3*	3.0E-8 *3*
CE O	1192.71 *20*	5.2E-7 % *6*	6.1E-9 *7*
CE P	1192.80 *20*	6.6E-8 % *7*	7.9E-10 *9*
CE L	1200.26 *10*	0.0013 % *5*	1.6E-5 *5*
CE M	1213.05 *10*	3.2E-4 % *10*	3.9E-6 *12*
CE N	1216.20 *10*	8.3E-5 % *24*	1.0E-6 *3*
CE O	1217.11 *10*	1.8E-5 % *6*	2.2E-7 *7*
CE P	1217.20 *10*	2.2E-6 % *7*	2.7E-8 *8*
CE L	1245.66 *10*	5.8E-4 % *15*	7.3E-6 *19*
CE M	1258.45 *10*	1.4E-4 % *4*	1.7E-6 *5*
CE N	1261.60 *10*	3.6E-5 % *10*	4.5E-7 *12*
CE O	1262.51 *10*	7.3E-6 % *21*	9E-8 *3*
CE P	1262.60 *10*	9E-7 % *3*	1.2E-8 *3*
CE K	1352.99 *10*	0.0024 % *4*	3.3E-5 *6*
CE K	1391.59 *20*	1.04E-4 % *10*	1.44E-6 *15*
CE K	1397.70 *10*	3.09E-4 % *21*	4.3E-6 *3*
CE L	1429.16 *10*	4.1E-4 % *7*	5.9E-6 *10*
CE M	1441.95 *10*	9.7E-5 % *16*	1.39E-6 *24*
CE N	1445.10 *10*	2.5E-5 % *4*	3.6E-7 *6*
CE O	1446.01 *10*	5.2E-6 % *9*	7.5E-8 *13*
CE P	1446.10 *10*	6.7E-7 % *11*	9.6E-9 *17*
CE L	1467.76 *20*	1.58E-5 % *16*	2.32E-7 *23*
CE L	1473.86 *10*	4.7E-5 % *3*	6.9E-7 *5*
CE M	1480.55 *20*	3.7E-6 % *4*	5.4E-8 *5*
CE K	1482.40 *10*	9.0E-4 % *5*	1.34E-5 *7*
CE N	1483.70 *20*	9.4E-7 % *9*	1.39E-8 *14*
CE O	1484.61 *20*	1.95E-7 % *20*	2.9E-9 *3*
CE P	1484.70 *20*	2.5E-8 % *3*	3.7E-10 *4*

CE M	1486.65 *10*	1.09E-5 % *7*	1.62E-7 *11*
CE K	1488.49 *10*	0.00185 % *7*	2.75E-5 *11*
CE N	1489.80 *10*	2.79E-6 % *19*	4.2E-8 *3*
CE O	1490.71 *10*	5.8E-7 % *4*	8.7E-9 *6*
CE P	1490.80 *10*	7.5E-8 % *5*	1.12E-9 *8*
CE L	1558.56 *10*	1.37E-4 % *7*	2.13E-6 *12*
CE L	1564.66 *10*	2.80E-4 % *11*	4.39E-6 *17*
CE M	1571.35 *10*	3.17E-5 % *17*	5.0E-7 *3*
CE N	1574.50 *10*	8.1E-6 % *4*	1.28E-7 *7*
CE O	1575.41 *10*	1.69E-6 % *9*	2.67E-8 *15*
CE P	1575.50 *10*	2.18E-7 % *12*	3.44E-9 *19*
CE M	1577.45 *10*	6.48E-5 % *25*	1.02E-6 *4*
CE N	1580.60 *10*	1.66E-5 % *6*	2.63E-7 *10*
CE O	1581.51 *10*	3.47E-6 % *14*	5.49E-8 *21*
CE P	1581.60 *10*	4.48E-7 % *18*	7.1E-9 *3*
CE K	1673.90 *10*	0.0047 % *3*	7.9E-5 *4*
CE L	1750.06 *10*	8.3E-4 % *5*	1.46E-5 *8*
CE M	1762.85 *10*	1.97E-4 % *11*	3.46E-6 *19*
CE N	1766.00 *10*	5.1E-5 % *3*	8.9E-7 *5*
CE O	1766.91 *10*	1.06E-5 % *6*	1.87E-7 *10*
CE P	1767.00 *10*	1.37E-6 % *8*	2.42E-8 *14*

Gamma and X-ray radiation:

	Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
XR l	11.1	60 % *3*	0.0066 *4*
XR kα2	76.863	36.3 % *21*	0.0279 *16*
XR kα1	79.29	60 % *3*	0.048 *3*
XR kβ3	89.256	7.3 % *4*	0.0065 *4*
XR kβ1	89.807	14.0 % *8*	0.0126 *7*
	90.8 *1*	1.83 % *18*	0.00166 *17*
XR kβ2	92.317	5.2 % *3*	0.0048 *3*
	104.187 *3*	2.4 % *4*	0.0025 *4*
	113.1 *1*	0.18 % *4*	2.1E-4 *4*
	151.4 *2*	0.081 % *15*	1.23E-4 *22*
	195.0 *1*	23.5 % *11*	0.0457 *21*
	233.6 *1*	1.00 % *8*	0.00234 *19*
	239.190 *18*	12.5 % *5*	0.0300 *11*
	321.1 *1*	0.63 % *3*	0.00201 *9*
	388.8 *1*	0.49 % *3*	0.00191 *11*
	415.8 *6*	0.055 % *18*	2.3E-4 *8*

Annihil.	511.0		0.10 % *8*	
	545.0 *1*		90.9 %	0.496
	551.0 *1*		4.91 % *18*	0.0271 *10*
	552.5 *2*		1.55 % *18*	0.0085 *10*
	554.6 *2*		0.57 % *9*	0.0032 *5*
	596.2 *1*		0.3 % *3*	0.0021 *21*
	596.2 *1*		0.3 % *3*	0.0021 *21*
	630.3 *1*		0.68 % *3*	0.00430 *17*
	666.1 *1*		1.86 % *6*	0.0124 *4*
	781.9 *1*		83.3 % *24*	0.651 *19*
	790.2 *1*		63.5 % *19*	0.501 *15*
	815.6 *1*		0.26 % *5*	0.0022 *4*
	854.4 *2*		0.65 % *5*	0.0055 *5*
	863.9 *1*		2.05 % *9*	0.0178 *8*
	903.0 *1*		3.67 % *11*	0.0332 *10*
	939.5 *3*		0.045 % *9*	4.3E-4 *9*
	985.2 *1*		0.85 % *9*	0.0084 *9*
	1074.6 *1*		0.200 % *18*	0.00215 *20*
	1103.4 *1*		5.39 % *18*	0.0595 *20*
	1136.5 *3*		0.068 % *9*	7.8E-4 *10*
	1141.3 *1*		0.327 % *18*	0.00374 *21*
	1147.6 *1*		1.36 % *9*	0.0157 *10*
	1148.8 *3*		0.78 % *9*	0.0090 *10*
	1170.6 *1*		3.00 % *9*	0.0351 *11*
	1175.3 *1*		1.91 % *9*	0.0224 *11*
	1192.8 *2*		0.164 % *18*	0.00195 *22*
	1213.7 *11*	?	0.44 % *4*	0.0053 *4*
	1217.2 *1*		1.11 % *7*	0.0135 *9*
	1262.6 *1*		1.88 % *7*	0.0238 *9*
	1311.7 *2*		0.055 % *5*	7.2E-4 *7*
	1356.9 *1*		0.164 % *9*	0.00222 *12*
	1427.0 *3*		0.028 % *5*	4.0E-4 *8*
	1446.1 *1*		0.536 % *18*	0.0078 *3*
	1456.6 *2*		0.118 % *9*	0.00172 *13*
	1478.9 *3*		0.040 % *4*	5.9E-4 *5*
	1484.7 *2*		0.091 % *9*	0.00135 *14*
	1490.8 *1*		0.273 % *18*	0.0041 *3*
	1537.7 *1*		0.48 % *4*	0.0074 *6*
	1575.5 *1*		0.87 % *5*	0.0138 *7*
	1581.6 *1*		1.80 % *6*	0.0285 *10*
	1651.3 *3*		0.041 % *4*	6.8E-4 *6*
	1730.0 *4*		0.0118 % *18*	2.0E-4 *3*

1745.9 *2*	0.083 % *5*	0.00144 *8*
1767.0 *1*	0.51 % *3*	0.0090 *5*
2109.5 *3*	0.041 % *4*	8.6E-4 *8*
2319.6 *4*	0.0073 % *18*	1.7E-4 *4*
2357.7 *6*	0.0055 % *18*	1.3E-4 *4*
2363.7 *4*	0.0136 % *18*	3.2E-4 *4*
2433.44 *20*	0.0136 % *18*	3.3E-4 *4*
2528.1 *6*	0.0027 % *9*	6.9E-5 *23*
2654.4 *4*	0.0027 % *9*	7.2E-5 *24*

Gamma Coincidence Data:
For each gamma, the list of gammas in coincidence is given. If experimentally known, an estimate of the average time interval (in seconds) between both gammas is given

E(γ)	Coincidence
90.8	104.187 (2.48E-8), 151.4, 239.190 (2.48E-8), 415.8 (2.48E-8), 545.0 (7.00E-11), 551.0 (2.48E-8), 552.5 (2.48E-8), 596.2 (2.48E-8), 630.3, 666.1 (2.48E-8), 781.9, 790.2 (2.48E-8), 939.5 (2.48E-8), 1074.6 (2.48E-8), 1103.4 (2.48E-8), 1141.3 (2.48E-8), 1147.6 (2.48E-8), 1175.3, 1217.2 (2.48E-8), 1311.7 (2.48E-8), 1456.6 (2.48E-8), 1484.7 (2.48E-8), 1490.8 (2.48E-8), 1730.0 (2.48E-8)
104.187	90.8 (2.48E-8), 151.4 (2.48E-8), 239.190 (7.00E-11), 415.8 (7.00E-11), 545.0 (2.48E-8), 551.0 (7.00E-11), 552.5 (7.00E-11), 596.2 (7.00E-11), 630.3 (2.48E-8), 666.1 (7.00E-11), 781.9 (2.48E-8), 790.2 (7.00E-11), 939.5 (7.00E-11), 1074.6 (7.00E-11), 1103.4 (7.00E-11), 1141.3 (7.00E-11), 1147.6 (7.00E-11), 1175.3 (2.48E-8), 1217.2 (7.00E-11), 1311.7 (7.00E-11), 1456.6 (7.00E-11), 1730.0 (7.00E-11)
113.1	233.6, 239.190 (7.00E-11), 415.8 (7.00E-11), 545.0 (7.00E-11), 551.0 (7.00E-11), 552.5 (7.00E-11), 554.6, 596.2 (7.00E-11), 630.3, 666.1 (7.00E-11), 790.2 (7.00E-11), 854.4, 863.9, 939.5 (7.00E-11), 1074.6 (7.00E-11), 1103.4 (7.00E-11), 1141.3 (7.00E-11), 1147.6 (7.00E-11), 1175.3, 1217.2 (7.00E-11), 1311.7 (7.00E-11), 1456.6 (7.00E-11), 1730.0 (7.00E-11)
151.4	90.8, 104.187 (2.48E-8), 195.0, 239.190 (2.48E-8), 388.8, 415.8 (2.48E-8), 545.0 (7.00E-11), 551.0 (2.48E-8), 552.5 (2.48E-8), 596.2, 596.2 (2.48E-8), 630.3, 666.1 (2.48E-8), 790.2 (2.48E-8), 939.5 (2.48E-8), 985.2, 1074.6 (2.48E-8), 1103.4 (2.48E-8), 1141.3 (2.48E-8), 1147.6 (2.48E-8), 1148.8, 1175.3, 1192.8, 1217.2 (2.48E-8), 1262.6, 1311.7 (2.48E-8), 1356.9, 1456.6 (2.48E-8), 1484.7 (2.48E-8), 1490.8 (2.48E-8), 1537.7, 1575.5, 1581.6, 1651.3, 1730.0 (2.48E-8), 1745.9
195.0	151.4, 239.190 (7.00E-11), 415.8 (7.00E-11), 545.0 (7.00E-11), 551.0 (7.00E-11), 552.5 (7.00E-11), 596.2 (7.00E-11), 630.3, 666.1 (7.00E-11), 781.9, 790.2 (7.00E-11), 939.5 (7.00E-11), 1074.6 (7.00E-11), 1103.4 (7.00E-11), 1141.3 (7.00E-11), 1147.6 (7.00E-11), 1175.3, 1217.2 (7.00E-11), 1311.7 (7.00E-11), 1456.6 (7.00E-11), 1730.0 (7.00E-11)
233.6	113.1, 239.190 (7.00E-11), 415.8 (7.00E-11), 545.0 (7.00E-11), 551.0 (7.00E-11), 552.5 (7.00E-11), 596.2 (7.00E-11), 630.3, 666.1 (7.00E-11), 790.2 (7.00E-11), 903.0, 939.5 (7.00E-11), 1074.6 (7.00E-11), 1103.4 (7.00E-11), 1141.3 (7.00E-11), 1147.6 (7.00E-11), 1175.3, 1217.2 (7.00E-11), 1311.7 (7.00E-11), 1427.0, 1456.6 (7.00E-11), 1730.0 (7.00E-11)
239.190	90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 415.8, 545.0 (2.49E-8), 551.0, 552.5, 554.6 (7.00E-11), 596.2, 630.3 (2.48E-8), 666.1, 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 939.5, 1074.6, 1103.4, 1141.3, 1147.6, 1175.3 (2.48E-8), 1217.2, 1311.7
321.1	545.0 (7.00E-11), 552.5, 596.2, 630.3, 666.1, 815.6, 939.5, 1175.3, 1446.1
388.8	151.4, 545.0 (7.00E-11), 552.5, 596.2, 596.2, 630.3, 666.1, 781.9, 939.5, 1148.8, 1175.3, 1192.8, 1262.6, 1356.9
415.8	90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8),

781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1074.6, 1175.3 (2.48E-8), 1427.0

545.0 90.8 (7.00E-11), 104.187 (2.48E-8), 113.1 (7.00E-11), 151.4 (7.00E-11), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190 (2.49E-8), 321.1 (7.00E-11), 388.8 (7.00E-11), 415.8 (2.49E-8), 551.0 (2.49E-8), 552.5 (7.00E-11), 596.2 (7.00E-11), 596.2 (7.00E-11), 630.3 (7.00E-11), 666.1 (7.00E-11), 781.9 (7.00E-11), 790.2 (2.49E-8), 815.6 (7.00E-11), 863.9 (7.00E-11), 903.0 (7.00E-11), 939.5 (7.00E-11), 985.2 (7.00E-11), 1074.6 (2.49E-8), 1103.4 (2.49E-8), 1136.5 (7.00E-11), 1141.3 (2.49E-8), 1147.6 (2.49E-8), 1148.8 (7.00E-11), 1170.6 (7.00E-11), 1192.8 (7.00E-11), 1217.2 (2.49E-8), 1262.6 (7.00E-11), 1311.7 (2.49E-8), 1356.9 (7.00E-11), 1427.0 (7.00E-11), 1446.1 (7.00E-11), 1456.6 (2.49E-8), 1478.9 (7.00E-11), 1484.7 (2.48E-8), 1490.8 (2.48E-8), 1537.7 (7.00E-11), 1575.5 (7.00E-11), 1581.6 (7.00E-11), 1651.3 (7.00E-11), 1730.0 (2.49E-8), 1745.9 (7.00E-11), 1767.0 (7.00E-11), 2109.5 (7.00E-11), 2319.6 (7.00E-11), 2357.7 (7.00E-11), 2363.7 (7.00E-11), 2433.44 (7.00E-11), 2528.1 (7.00E-11)

551.0 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 545.0 (2.49E-8), 552.5, 554.6 (7.00E-11), 596.2, 630.3 (2.48E-8), 666.1, 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 939.5, 1175.3 (2.48E-8)

552.5 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 321.1, 388.8, 545.0 (7.00E-11), 551.0, 554.6 (7.00E-11), 596.2, 630.3, 781.9 (2.48E-8), 790.2, 815.6, 854.4 (7.00E-11), 863.9 (7.00E-11), 903.0, 985.2, 1136.5, 1170.6, 1175.3, 1446.1, 1767.0

554.6 113.1, 239.190 (7.00E-11), 415.8 (7.00E-11), 551.0 (7.00E-11), 552.5 (7.00E-11), 596.2 (7.00E-11), 666.1 (7.00E-11), 790.2 (7.00E-11), 854.4, 903.0, 939.5 (7.00E-11), 1074.6 (7.00E-11), 1103.4 (7.00E-11), 1141.3 (7.00E-11), 1147.6 (7.00E-11), 1217.2 (7.00E-11), 1311.7 (7.00E-11), 1427.0, 1456.6 (7.00E-11), 1730.0 (7.00E-11)

596.2 151.4, 388.8, 545.0 (7.00E-11), 552.5, 596.2, 630.3, 666.1, 781.9, 939.5, 1170.6, 1175.3

596.2 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 321.1, 388.8, 545.0 (7.00E-11), 551.0, 554.6 (7.00E-11), 596.2, 630.3, 781.9 (2.48E-8), 790.2, 815.6, 854.4 (7.00E-11), 863.9 (7.00E-11), 903.0, 985.2, 1136.5, 1170.6, 1175.3, 1446.1, 1767.0

630.3 90.8, 104.187 (2.48E-8), 113.1, 151.4, 195.0, 233.6, 239.190 (2.48E-8), 321.1, 388.8, 415.8 (2.48E-8), 545.0 (7.00E-11), 551.0 (2.48E-8), 552.5, 596.2, 596.2, 666.1, 790.2 (2.48E-8), 815.6, 903.0, 939.5, 985.2, 1074.6 (2.48E-8), 1103.4 (2.48E-8), 1136.5, 1141.3 (2.48E-8), 1147.6 (2.48E-8), 1148.8, 1192.8, 1217.2 (2.48E-8), 1262.6, 1311.7 (2.48E-8), 1356.9, 1427.0, 1456.6 (2.48E-8), 1478.9, 1484.7 (2.48E-8), 1490.8 (2.48E-8), 1537.7, 1575.5, 1581.6, 1651.3, 1730.0 (2.48E-8), 1745.9

666.1 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 321.1, 388.8, 545.0 (7.00E-11), 551.0, 554.6 (7.00E-11), 596.2, 630.3, 781.9 (2.48E-8), 790.2, 815.6, 854.4 (7.00E-11), 863.9 (7.00E-11), 903.0, 985.2, 1136.5, 1170.6, 1175.3, 1446.1, 1767.0

781.9 90.8, 104.187 (2.48E-8), 195.0, 239.190 (2.48E-8), 388.8, 415.8 (2.48E-8), 545.0 (7.00E-11), 551.0 (2.48E-8), 552.5 (2.48E-8), 596.2, 596.2 (2.48E-8), 666.1 (2.48E-8), 790.2 (2.48E-8), 939.5 (2.48E-8), 985.2, 1074.6 (2.48E-8), 1103.4 (2.48E-8), 1141.3 (2.48E-8), 1147.6 (2.48E-8), 1148.8, 1192.8, 1217.2 (2.48E-8), 1262.6, 1311.7 (2.48E-8), 1356.9, 1456.6 (2.48E-8), 1484.7 (2.48E-8), 1490.8 (2.48E-8), 1537.7, 1575.5, 1581.6, 1651.3, 1730.0 (2.48E-8), 1745.9

790.2 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 545.0 (2.49E-8), 552.5, 554.6 (7.00E-11), 596.2, 630.3 (2.48E-8), 666.1, 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 939.5, 1175.3 (2.48E-8)

815.6 321.1, 545.0 (7.00E-11), 552.5, 596.2, 630.3, 666.1, 939.5, 1175.3

854.4 113.1, 239.190 (7.00E-11), 415.8 (7.00E-11), 551.0 (7.00E-11), 552.5 (7.00E-11), 554.6, 596.2 (7.00E-11), 666.1 (7.00E-11), 790.2 (7.00E-11), 903.0, 939.5 (7.00E-11), 1074.6 (7.00E-11), 1103.4 (7.00E-11), 1141.3 (7.00E-11), 1147.6 (7.00E-11), 1217.2 (7.00E-11), 1311.7 (7.00E-11), 1427.0, 1456.6 (7.00E-11), 1730.0 (7.00E-11)

863.9 113.1, 239.190 (7.00E-11), 415.8 (7.00E-11), 545.0 (7.00E-11), 551.0 (7.00E-11), 552.5 (7.00E-11), 596.2 (7.00E-11), 666.1 (7.00E-11), 790.2 (7.00E-11), 903.0,

939.5 (7.00E-11), 1074.6 (7.00E-11), 1103.4 (7.00E-11), 1141.3 (7.00E-11), 1147.6 (7.00E-11), 1217.2 (7.00E-11), 1311.7 (7.00E-11), 1427.0, 1456.6 (7.00E-11), 1730.0 (7.00E-11)

903.0 233.6, 545.0 (7.00E-11), 552.5, 554.6, 596.2, 630.3, 666.1, 854.4, 863.9, 939.5, 1175.3

939.5 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 321.1, 388.8, 545.0 (7.00E-11), 551.0, 554.6 (7.00E-11), 596.2, 630.3, 781.9 (2.48E-8), 790.2, 815.6, 854.4 (7.00E-11), 863.9 (7.00E-11), 903.0, 985.2, 1136.5, 1170.6, 1175.3, 1446.1, 1767.0

985.2 151.4, 545.0 (7.00E-11), 552.5, 596.2, 630.3, 666.1, 781.9, 939.5, 1175.3

1074.6 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 415.8, 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8), 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1175.3 (2.48E-8)

1103.4 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8), 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1175.3 (2.48E-8)

1136.5 545.0 (7.00E-11), 552.5, 596.2, 630.3, 666.1, 939.5, 1175.3

1141.3 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8), 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1175.3 (2.48E-8)

1147.6 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8), 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1175.3 (2.48E-8)

1148.8 151.4, 388.8, 545.0 (7.00E-11), 630.3, 781.9, 1170.6, 1175.3

1170.6 545.0 (7.00E-11), 552.5, 596.2, 596.2, 666.1, 939.5, 1148.8, 1192.8, 1262.6, 1356.9

1175.3 90.8, 104.187 (2.48E-8), 113.1, 151.4, 195.0, 233.6, 239.190 (2.48E-8), 321.1, 388.8, 415.8 (2.48E-8), 551.0 (2.48E-8), 552.5, 596.2, 596.2, 666.1, 790.2 (2.48E-8), 815.6, 903.0, 939.5, 985.2, 1074.6 (2.48E-8), 1103.4 (2.48E-8), 1136.5, 1141.3 (2.48E-8), 1147.6 (2.48E-8), 1148.8, 1192.8, 1217.2 (2.48E-8), 1262.6, 1311.7 (2.48E-8), 1356.9, 1427.0, 1456.6 (2.48E-8), 1478.9, 1484.7 (2.48E-8), 1490.8 (2.48E-8), 1537.7, 1575.5, 1581.6, 1651.3, 1730.0 (2.48E-8), 1745.9

1192.8 151.4, 388.8, 545.0 (7.00E-11), 630.3, 781.9, 1170.6, 1175.3

1217.2 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8), 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1175.3 (2.48E-8)

1262.6 151.4, 388.8, 545.0 (7.00E-11), 630.3, 781.9, 1170.6, 1175.3

1311.7 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 239.190, 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8), 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1175.3 (2.48E-8)

1356.9 151.4, 388.8, 545.0 (7.00E-11), 630.3, 781.9, 1170.6, 1175.3

1427.0 233.6, 415.8, 545.0 (7.00E-11), 554.6, 630.3, 854.4, 863.9, 1175.3

1446.1 321.1, 545.0 (7.00E-11), 552.5, 596.2, 666.1, 939.5

1456.6 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8), 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1175.3 (2.48E-8)

1478.9 545.0 (7.00E-11), 630.3, 1175.3

1484.7 90.8 (2.48E-8), 151.4 (2.48E-8), 545.0 (2.48E-8), 630.3 (2.48E-8), 781.9 (2.48E-8), 1175.3 (2.48E-8)

1490.8 90.8 (2.48E-8), 151.4 (2.48E-8), 545.0 (2.48E-8), 630.3 (2.48E-8), 781.9 (2.48E-8), 1175.3 (2.48E-8)

1537.7 151.4, 545.0 (7.00E-11), 630.3, 781.9, 1175.3

1575.5 151.4, 545.0 (7.00E-11), 630.3, 781.9, 1175.3

1581.6 151.4, 545.0 (7.00E-11), 630.3, 781.9, 1175.3

1651.3 151.4, 545.0 (7.00E-11), 630.3, 781.9, 1175.3

1730.0 90.8 (2.48E-8), 104.187 (7.00E-11), 113.1 (7.00E-11), 151.4 (2.48E-8), 195.0 (7.00E-11), 233.6 (7.00E-11), 545.0 (2.49E-8), 554.6 (7.00E-11), 630.3 (2.48E-8), 781.9 (2.48E-8), 854.4 (7.00E-11), 863.9 (7.00E-11), 1175.3 (2.48E-8)

1745.9 151.4, 545.0 (7.00E-11), 630.3, 781.9, 1175.3

1767.0 545.0 (7.00E-11), 552.5, 596.2, 666.1, 939.5

2109.5	545.0 (7.00E-11)
2319.6	545.0 (7.00E-11)
2357.7	545.0 (7.00E-11)
2363.7	545.0 (7.00E-11)
2433.44	545.0 (7.00E-11)
2528.1	545.0 (7.00E-11)