^{214}Bi β^- decay   1994Mo06,1989Si17

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Shaofei Zhu and E. A. Mccutchan	NDS 175, 1 (2021)	1-May-2021

Parent: ^{214}Bi: E=0.0; J^π=1$^-$; $T_{1/2}$=19.71 min 2; Q(β^-)=3269 11; %β^- decay=99.9790 13

^{214}Bi-Q(β^-): from 2021Wa16.

2004Mo07, 2002De03, 1998Mo14: Radioactivity ^{226}Ra(α); measured Eγ, relative and absolute Iγ, X-ray spectra; Ge(Li), HPGe detectors. α-spectra with 20 keV resolution using ZnS scintillator.

2002MoZP: Radioactivity ^{226}Ra(α); measured Eγ, Iγ; Compton suppressed spectrometer, planar HPGe detector.

2000Sa32: Radioactivity ^{226}Ra(α); measured Eγ, Iγ; HPGe detector.

1994Mo06, 1993Di09, 1990Mo08, 1982Ak03: Radioactivity ^{226}Ra(α); measured Eγ, Iγ, $\gamma\gamma$; planar HPGe detector and Ge(Li) detectors.

1989Si17, 1989Ta15, 1986Ta16: Radioactivity ^{226}Ra(α); measured Eγ, Iγ, $\gamma\gamma$, $\gamma\gamma(\theta)$; Ge detectors with anti-Compton arrangement.

Others:

For ce measurements, see 1975HaZA, 1967Ma51, 1960Lu07, 1960Ma05, 1957Ni11 and 1954Ml77.

For additional Eγ, Iγ measurements, see 2003Kl15,1991Li11,1983Ol01, 1983Sc13, 1982Fa10, 1977Zo01, 1975Ha31, 1972ClZS, 1971DiZI, 1969Li10, 1969Gr33, 1969Gu15, 1969La03, 1969Li10, 1969Wa27, 1969La03, 1968Yt01, 1967Ma51, 1967Ar20, 1967Bu17, 1966Hu03, 1964Ew04, 1960Lu07, 1958Bi87, 1958Dz94, 1958Dz94, 1954Ml77, 1952Mu45, 1949Ma75.

X rays(Bi):

I(Kα1 x ray)=0.97% 7; I(Kα2 x ray)=0.53% 3 (2004Mo07). Other: I(Kα x ray)=)=1.77% 5 (1983Sc13).

I(Kβ x ray)=0.44% 5 (2004Mo07).

α: Additional information 1.

^{214}Po Levels

The decay level scheme is mainly from $\gamma\gamma$ coincidences of 1989Si17 and 1994Mo06.

E(level)[†]	J^{π}[‡]	$T_{1/2}$	Comments
0.0	0$^+$	163.46 μs 4	$T_{1/2}$: from the Adopted Levels.
609.318 5	2$^+$		
1015.041 20	(4$^+$)		
1274.765 9	3$^-$		
1377.681 7	2$^+$		
1415.498 8	0$^+$	99 ps 3	$T_{1/2}$: from 1979Be12; other: 0.23 ns 19 (1959Tu44).
1543.370 9	2$^+$		
1661.282 14	2$^+$		
1712.93 8	(3$^+$)		
1729.613 7	2$^+$		
1742.99 3	0$^{(+)}$		
1764.520 8	1$^+$		
1847.446 9	2$^+$		
1890.306 13	(2)$^+$		
1994.639 13	1$^-$		
2010.831 13	(2$^+$)		
2017.315 9	0$^+$		
2088.44 5	(1,2$^+$)		
2118.535 10	1$^+$		
2147.86 5	(1$^-$,2$^+$)		
2192.536 16	(2)$^+$		
2204.103 23	1$^+$		
2208.69 4	(2$^-$,3)		
2266.41 4	2$^+$		
2293.362 19	(1$^+$,2$^+$)		

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

^{214}Po Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	Comments
2348.3 *7*	(1,2$^+$)	
2360.97 *17*	(1,2$^+$)	
2423.25 *6*	(1,2$^+$)	
2447.701 *19*	1$^-$	
2482.460 *17*	(1$^-$,2$^+$)	
2505.34 *9*	(1$^-$,2$^+$)	
2508.12 *4*	(0$^+$)	
2544.92 *11*		
2553.0 *5*		
2562.4 *5*		
2604.68 *6*	(2$^+$)	
2630.84 *9*	(1,2$^+$)	
2662.33 *9*	(2$^+$)	
2694.62 *5*	(1$^-$,2$^+$)	
2698.60 *7*	(1,2)$^+$	E(level): from 1989Si17. Proposed as two levels at 2698.31 and 2699.12 keV in 1993Di09 and 1994Mo06.
2719.26 *5*	1$^+$	
2728.617 *23*	(0$^+$,1,2)	
2769.91 *13*	(1,2$^+$)	
2785.97 *9*	(1,2$^+$)	
2794.1 *6*		
2802.54 *19*		
2826.82 *14*	(1,2$^+$)	
2860.93 *13*	(1,2$^+$)	
2869.63 *17*	(2$^-$,3$^-$)	
2880.36 *14*	(1$^-$,2$^+$)	
2893.60 *11*	(1,2$^+$)	
2896.98 *23*		
2919.5 *3*		
2921.89 *11*	(1,2$^+$)	
2928.55 *22*	(1,2$^+$)	
2934.54 *18*	(1,2$^+$)	
2940.67 *10*	(1$^-$,2$^+$)	
2962.8 *7*		
2967.6 *5*		
2978.93 *12*	(1,2$^+$)	
2986.22 *13*	(2$^-$,3)	
3000.00 *14*	(1$^-$,2$^+$)	
3003.4 *10*		
3005.8 *6*		
3014.11 *15*	(1,2$^+$)	
3022.3 *3*	(2$^-$,3,4$^+$)	
3030.3 *6*		
3039.3 *6*		
3053.88 *18*	(1,2$^+$)	
3068.3 *8*		
3078.7 *6*		
3081.84 *25*	(1,2$^+$)	
3093.48 *23*	(1$^-$,2$^+$)	
3139.0 *8*		
3142.6 *4*	(1,2$^+$)	
3149.2 *5*	(1,2$^+$)	
3160.4 *5*	(1,2$^+$)	
3164.4 *8*		
3173.3 *6*		

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

^{214}Bi β^- decay   **1994Mo06,1989Si17** (continued)

^{214}Po Levels (continued)

E(level)[†]	J$^{\pi}$[‡]
3183.6 *4*	(1,2$^+$)
3262.4 *8*	

[†] From a least squares fit to Eγ's by evaluators. 1.0-keV uncertainty assumed when not reported.
[‡] From the Adopted Levels.

β^- radiations

E(decay)	E(level)	Iβ^-[†]	Log *ft*	Comments
(85 *11*)	3183.6	0.0016 *3*	6.57 *20*	av Eβ=22.0 *30*
(96 *11*)	3173.3	0.00014 *9*	7.8 *4*	av Eβ=24.8 *30*
(109 *11*)	3160.4	0.00086 *17*	7.16 *17*	av Eβ=28.3 *31*
(120 *11*)	3149.2	8.63×10^{-5} *4*	8.29 *13*	av Eβ=31.4 *31*
(126 *11*)	3142.6	0.0021 *4*	6.97 *15*	av Eβ=33.2 *31*
(176 *11*)	3093.48	0.0088 *17*	6.79 *13*	av Eβ=47.0 *32*
(187 *11*)	3081.84	0.0082 *20*	6.91 *14*	av Eβ=50.3 *32*
(215 *11*)	3053.88	0.037 *5*	6.44 *10*	av Eβ=58.4 *33*
(255 *11*)	3014.11	0.040 *6*	6.64 *9*	av Eβ=70.2 *33*
(266 *11*)	3003.4	0.007 *3*	7.46 *20*	av Eβ=73.4 *34*
(269 *11*)	3000.00	0.0102 *10*	7.31 *8*	av Eβ=74.4 *34*
(283 *11*)	2986.22	0.0091 *9*	7.43 *7*	av Eβ=78.6 *34*
(290 *11*)	2978.93	0.0164 *7*	7.21 *6*	av Eβ=80.8 *34*
(306 *11*)	2962.8	0.00036 *14*	8.94 *18*	av Eβ=85.7 *34*
(328 *11*)	2940.67	0.049 *5*	6.91 *7*	av Eβ=92.5 *35*
(334 *11*)	2934.54	0.00214 *21*	8.29 *7*	av Eβ=94.4 *35*
(340 *11*)	2928.55	0.00109 *9*	8.61 *6*	av Eβ=96.3 *35*
(347 *11*)	2921.89	0.0227 *13*	7.32 *6*	av Eβ=98.4 *35*
(350 *11*)	2919.5	0.0014 *9*	8.5 *3*	av Eβ=99.1 *35*
(372 *11*)	2896.98	0.0045 *5*	8.12 *7*	av Eβ=106.2 *35*
(375 *11*)	2893.60	0.033 *5*	7.27 *8*	av Eβ=107.3 *35*
(389 *11*)	2880.36	0.0113 *14*	7.78 *7*	av Eβ=111.5 *35*
(399 *11*)	2869.63	0.014 *3*	7.73 *11*	av Eβ=114.9 *36*
(408 *11*)	2860.93	0.032 *6*	7.40 *9*	av Eβ=117.7 *36*
(442 *11*)	2826.82	0.043 *13*	7.38 *14*	av Eβ=128.8 *36*
(466 *11*)	2802.54	0.0082 *14*	8.18 *9*	av Eβ=136.7 *37*
(483 *11*)	2785.97	0.048 *6*	7.46 *7*	av Eβ=142.2 *37*
(499 *11*)	2769.91	0.063 *9*	7.39 *7*	av Eβ=147.5 *37*
(540 *11*)	2728.617	0.542 *22*	6.57 *4*	av Eβ=161.4 *38*
(550 *11*)	2719.26	0.273 *12*	6.89 *4*	av Eβ=164.6 *38*
(570 *11*)	2698.60	0.103 *7*	7.37 *4*	av Eβ=171.6 *38*
(574 *11*)	2694.62	0.249 *15*	7.00 *4*	av Eβ=173.0 *38*
(607 *11*)	2662.33	0.125 *11*	7.38 *5*	av Eβ=184.1 *38*
(638 *11*)	2630.84	0.037 *8*	7.98 *10*	av Eβ=195.0 *39*
(664 *11*)	2604.68	0.20 *5*	7.30 *12*	av Eβ=204.2 *39*
(707 *11*)	2562.4	0.00018 *9*	10.44 *22*	av Eβ=219.1 *40*
(716 *11*)	2553.0	9.09×10^{-5} *4*	10.758 *23*	av Eβ=222.5 *40*
(724 *11*)	2544.92	0.033 *6*	8.21 *9*	av Eβ=225.4 *40*
				Iβ^-: since I(γ+ce)(36.8γ) is not known, the given Iβ may be considered a lower limit.
(761 *11*)	2508.12	0.130 *11*	7.69 *5*	av Eβ=238.6 *40*
				Iβ^-: may be considered as an upper limit because of unknown intensity of the 36.8γ feeding from the 2545-keV level.
(764 *11*)	2505.34	0.174 *10*	7.57 *4*	av Eβ=239.6 *40*

<div align="center">

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

β^- radiations (continued)

</div>

E(decay)	E(level)	I$\beta^{-\dagger}$	Log ft	Comments
(787 *11*)	2482.460	1.28 *4*	6.75 *3*	av Eβ=247.8 *40*
(821 *11*)	2447.701	2.78 *6*	6.478 *23*	av Eβ=260.5 *41*
(846 *11*)	2423.25	0.084 *6*	8.04 *4*	av Eβ=269.5 *41*
(908 *11*)	2360.97	0.024 *5*	8.69 *10*	av Eβ=292.5 *41*
(921 *11*)	2348.3	0.00014 *9*	10.9 *3*	av Eβ=297.2 *42*
(976 *11*)	2293.362	0.563 *16*	7.433 *22*	av Eβ=317.8 *42*
(1003 *11*)	2266.41	0.192 *12*	7.94 *4*	av Eβ=328.0 *42*
				Iβ^-: since the transition intensity of the 61.0γ is not known, its possible contribution is not included in Iβ calculation.
(1060 *11*)	2208.69	0.22 *3*	7.97 *7*	av Eβ=350.0 *43*
(1065 *11*)	2204.103	5.56 *5*	6.573 *17*	av Eβ=351.8 *42*
(1076 *11*)	2192.536	0.866 *12*	7.397 *17*	av Eβ=356.1 *43*
(1121 *11*)	2147.86	0.46 *3*	7.73 *4*	av Eβ=373.3 *43*
(1150 *11*)	2118.535	4.33 *4*	6.801 *16*	av Eβ=384.7 *43*
(1181 *11*)	2088.44	0.081 *9*	8.57 *5*	av Eβ=396.4 *43*
				Iβ^-: since I(γ+ce)(71.1γ) is not known, any contribution from the 71.1γ could not be included in calculation of Iβ to 2088.41 level.
(1252 *11*)	2017.315	2.460 *15*	7.179 *15*	av Eβ=424.2 *44*
				Iβ^-: since I(γ+ce)(71.1γ) from the 2088.41 level is not known, its intensity could not be subtracted in calculation of Iβ to the 2017.30 level.
(1258 *11*)	2010.831	1.433 *11*	7.422 *15*	av Eβ=426.7 *44*
(1274 *11*)	1994.639	1.192 *21*	7.522 *16*	av Eβ=433.1 *44*
(1379 *11*)	1890.306	1.589 *17*	7.521 *14*	av Eβ=474.5 *44*
(1422 *11*)	1847.446	8.16 *5*	6.859 *13*	av Eβ=491.6 *44*
(1504 *11*)	1764.520	16.90 *11*	6.634 *13*	av Eβ=524.9 *45*
(1526 *11*)	1742.99	0.138 *16*	8.74 *6*	av Eβ=533.6 *45*
(1539 *11*)	1729.613	17.55 *10*	6.654 *12*	av Eβ=539.0 *45*
(1556‡ *11*)	1712.93	0.153 *16*	9.57^{1u} *5*	av Eβ=529.3 *43*
(1608 *11*)	1661.282	0.57 *5*	8.21 *4*	av Eβ=566.8 *45*
(1726 *11*)	1543.370	3.09 *4*	7.593 *12*	av Eβ=614.9 *46*
(1854 *11*)	1415.498	0.90 *5*	8.25 *3*	av Eβ=667.6 *46*
(1891 *11*)	1377.681	7.22 *8*	7.374 *11*	av Eβ=683.3 *46*
(1994 *11*)	1274.765	0.06 *4*	9.5 *3*	av Eβ=726.1 *46*
(2254 *11*)	1015.041	0.079 *13*	9.63 *8*	av Eβ=835.0 *47*
(2660‡ *11*)	609.318	0.55 *8*	9.06 *7*	av Eβ=1007.1 *47*
(3269 *11*)	0.0	19.2 *4*	7.872 *11*	av Eβ=1268.4 *48*
				E(decay): measured values: 3275 keV *15* (1960Lu07), 3260 keV *30* (1956Da06), 3180 keV *90* (1955Ri54), 3170 keV (1952Wa33, 1941Co04).

† For absolute intensity per 100 decays, multiply by 0.999790 *13*.
‡ Existence of this branch is questionable.

^{214}**Bi** β^- **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$

Iγ normalization: Deduced from Iγ(609)=45.45 *19* (weighted average of 45.0 *7* (1983Ol01), 44.6 *5* (1983Sc13), 46.1 *5* (1991Li11), 44.8 *6* (1998Mo14), 45.57 *18* (2004Mo07)) per 100 ^{214}Bi β^- decays with ^{226}Ra or ^{222}Rn in equilibrium.

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
(36.8[†] *2*)		2544.92		2508.12	(0$^+$)			E_γ: from 1993Di09 and 1994Mo06, based on coincident analysis, no γ transitions observed.
(61.0[†] *8*)		2266.41	2$^+$	2204.103	1$^+$	[M1+E2]	40 *32*	α(L)=30 *23*; α(M)=8 *6*; α(N)=2.0 *16*; α(O)=0.39 *30*; α(P)=0.036 *25* E_γ: from 1993Di09 and 1994Mo06, based on coincident analysis, no γ transitions observed.
(71.1[†] *2*)		2088.44	(1,2$^+$)	2017.315	0$^+$			E_γ: from 1993Di09 and 1994Mo06, based on coincident analysis, no γ transitions observed.
(104.4[†] *2*)		1994.639	1$^-$	1890.306	(2)$^+$			E_γ: from 1993Di09 and 1994Mo06, based on coincident analysis, no γ transitions observed.
221.5[‡] *2*	0.006 *2*	1764.520	1$^+$	1543.370	2$^+$	[M1,E2]	0.7 *4*	α(K)=0.5 *4*; α(L)=0.157 *10*; α(M)=0.0391 *6*; α(N)=0.01005 *17*; α(O)=0.00202 *10* α(P)=0.00023 *5* E_γ: weighted average of 221.57 *24* (1982Ak03) and 221 *1* (1989Si17). I_γ: from 1989Si17; others: 0.012 (1982Ak03) and 0.130 *13* (2000Sa32).
230[#‡] *1*	0.0064 *21*	1994.639	1$^-$	1764.520	1$^+$	[E1]	0.0585 *10*	α(K)=0.0474 *8*; α(L)=0.00848 *15*; α(M)=0.00200 *4*; α(N)=0.000510 *9*; α(O)=0.0001036 *18* α(P)=1.230×10^{-5} *22* E_γ: from 1989Si17. I_γ: weighted average of 0.0064 *21* (1989Si17) and 0.0063 *21* (2000Sa32).
230.66[#†] *14*		2423.25	(1,2$^+$)	2192.536	(2)$^+$			E_γ: from 1993Di09 and 1994Mo06.
247.2[†] *8*		2694.62	(1$^-$,2$^+$)	2447.701	1$^-$			E_γ: from 1993Di09 and 1994Mo06.
252.79 *6*	0.027 *4*	2017.315	0$^+$	1764.520	1$^+$	[M1]	0.810 *11*	α(K)=0.658 *9*; α(L)=0.1154 *16*; α(M)=0.0272 *4*; α(N)=0.00701 *10*; α(O)=0.001466 *21* α(P)=0.0001895 *27* E_γ: weighted average of 252.56 *30* (1982Ak03), 253 *1* (1989Si17) and 252.80 *6* (1993Di09,1994Mo06). I_γ: weighted average of 0.033 *7* (1982Ak03), 0.028 *4* (1994Mo06) and 0.019 *7* (2000Sa32); other: 0.006 *2* (1989Si17).
255.16[†] *10*		2447.701	1$^-$	2192.536	(2)$^+$			E_γ: from 1993Di09 and 1994Mo06.
268.60 *6*	0.035 *4*	1543.370	2$^+$	1274.765	3$^-$	[E1]	0.0405 *6*	α(K)=0.0330 *5*; α(L)=0.00578 *8*; α(M)=0.001362 *19*; α(N)=0.000347 *5*; α(O)=7.08×10^{-5} *10* α(P)=8.50×10^{-6} *12* E_γ: weighted average of 268.57 *20* (1982Ak03), 269.0 *7* (1989Si17) and 268.60 *6* (1993Di09,1994Mo06).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ[@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
273.79 *5*	0.28 *3*	2482.460	$(1^-,2^+)$	2208.69	$(2^-,3)$			I_γ: weighted average of 0.031 *8* (1982Ak03), 0.06 *2* (1989Si17), 0.035 *4* (1994Mo06) and 0.059 *28* (2000Sa32). E_γ: weighted average of 273.5 *5* (1969Li10), 273.76 *24* (1982Ak03), 273.7 *4* (1989Si17) and 273.80 *5* (1993Di09,1994Mo06). I_γ: weighted average of 0.25 *5* (1982Ak03), 0.38 *6* (1989Si17), 0.27 *3* (1994Mo06) and 0.29 *10* (2000Sa32).
280.6[†] *4*		3000.00	$(1^-,2^+)$	2719.26	1^+			E_γ: from 1993Di09 and 1994Mo06.
280.97 *5*	0.14 *2*	2728.617	$(0^+,1,2)$	2447.701	1^-			E_γ: weighted average of 281.1 *6* (1969Li10), 281.00 *20* (1982Ak03), 280.94 *12* (1989Si17) and 280.97 *5* (1993Di09,1994Mo06). I_γ: weighted average of 0.13 *2* (1982Ak03), 0.17 *3* (1989Si17), 0.13 *2* (1994Mo06) and 0.17 *4* (2000Sa32).
282.0[†] *4*	0.021 *8*	2826.82	$(1,2^+)$	2544.92				E_γ: weighted average of 282.04 *36* (1982Ak03) and 282.0 *4* (1993Di09,1994Mo06). I_γ: from 1982Ak03.
[x]286.9 *6*	0.0060 *11*							E_γ: from 1969Li10. I_γ: from 2000Sa32.
297.81[†] *24*		2010.831	(2^+)	1712.93	(3^+)			E_γ: from 1993Di09 and 1994Mo06. $I\gamma(297.81\gamma)+I\gamma(297.80\gamma$ in ^{210}Pb)=0.058 *10* (2000Sa32) and 0.046 *11* (1993Di09).
304.00[#][†] *4*	0.057 *5*	2508.12	(0^+)	2204.103	1^+			E_γ: weighted average of 304.05 *4* (1982Ak03) and 303.97 *3* (1993Di09,1994Mo06). I_γ: from 0.069 *15* (1982Ak03), 0.055 *5* (1993Di09,1994Mo06) and 0.065 *20* (2000Sa32).
304.43[#][‡] *12*	0.075 *25*	1847.446	2^+	1543.370	2^+	[M1,E2]	0.30 *18*	α(K)=0.23 *17*; α(L)=0.055 *14*; α(M)=0.0135 *27*; α(N)=0.0035 *7*; α(O)=0.00071 *17* α(P)=8.4×10^{-5} *30* E_γ: from 1989Si17. I_γ: from 2000Sa32.
314.9[†] *8*		3014.11	$(1,2^+)$	2698.60	$(1,2)^+$			E_γ: from 1993Di09 and 1994Mo06.
333.37 *8*	0.14 *1*	1994.639	1^-	1661.282	2^+	[E1]	0.02466 *35*	α(K)=0.02014 *28*; α(L)=0.00345 *5*; α(M)=0.000810 *11*; α(N)=0.0002069 *29* α(O)=4.24×10^{-5} *6*; α(P)=5.16×10^{-6} *7* E_γ: weighted average of 333.35 *24* (1982Ak03), 333.61 *12* (1989Si17) and 333.31 *6* (1993Di09,1994Mo06). I_γ: weighted average of 0.16 *3* (1982Ak03), 0.21 *4* (1989Si17), 0.14 *1* (1994Mo06) and 0.13 *3* (2000Sa32).
334.80[#][†] *8*	0.071 *8*	2423.25	$(1,2^+)$	2088.44	$(1,2^+)$			E_γ: weighted average of 334.87 *19* (1982Ak03) and 334.78 *8* (1993Di09,1994Mo06). I_γ: weighted average of 0.072 *14* (1982Ak03), 0.066 *8* (1993Di09,1994Mo06) and 0.090 *17* (2000Sa32).

From ENSDF

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
334.9[#‡] 5	0.12 2	2482.460	(1$^-$,2$^+$)	2147.86	(1$^-$,2$^+$)			E_γ: from 1989Si17. I_γ: from 1989Si17.
[x]338.5 6	0.25 9							E_γ: from 1969Li10. I_γ: from 2000Sa32.
348.92 6	0.23 5	1764.520	1$^+$	1415.498	0$^+$	[M1]	0.335 5	α(K)=0.273 4; α(L)=0.0475 7; α(M)=0.01118 16; α(N)=0.00288 4; α(O)=0.000603 8 α(P)=7.79×10^{-5} 11 E_γ: weighted average of 348.8 5 (1989Si17) and 348.92 6 (1993Di09,1994Mo06). I_γ: weighted average of 0.17 4 (1989Si17), 0.34 5 (1994Mo06) and 0.20 5 (2000Sa32).
351.9[‡] 5	0.15 2	1729.613	2$^+$	1377.681	2$^+$	[M1+E2]	0.20 12	α(K)=0.16 11; α(L)=0.035 11; α(M)=0.0086 23; α(N)=0.0022 6; α(O)=4.5×10^{-4} 14 α(P)=5.4×10^{-5} 22 E_γ,I_γ: from 1989Si17.
356.05 16	0.015 4	2017.315	0$^+$	1661.282	2$^+$	[E2]	0.0769 11	α(K)=0.0457 6; α(L)=0.02335 33; α(M)=0.00601 8; α(N)=0.001542 22; α(O)=0.000303 4 α(P)=3.12×10^{-5} 4 E_γ: weighted average of 356.5 5 (1989Si17) and 356.00 17 (1993Di09,1994Mo06). I_γ: from 1989Si17.
[x]363.50 14	0.017 5							E_γ: weighted average of 363.47 12 (1993Di09) and 364.2 6 (1975Ha31). I_γ: from 1993Di09. Assignment to ^{214}Bi β^- decay is not established.
[x]375.65 24	0.009 3							E_γ: weighted average of 375.59 15 (1993Di09) and 376.6 6 (1975Ha31). I_γ: from 2000Sa32.
386.77 5	0.65 4	1764.520	1$^+$	1377.681	2$^+$	[M1,E2]	0.16 10	α(K)=0.12 8; α(L)=0.027 9; α(M)=0.0065 20; α(N)=0.0017 5; α(O)=3.4×10^{-4} 11 α(P)=4.1×10^{-5} 18 E_γ: weighted average of 386.8 8 (1969Li10), 386.72 19 (1982Ak03), 387.0 3 (1989Si17) and 386.77 5 (1993Di09,1994Mo06). Other: 386.9 10 (1967Ma51). I_γ: weighted average of 0.64 10 (1982Ak03), 0.79 13 (1989Si17), 0.63 5 (1994Mo06) and 0.70 15 (2000Sa32).
388.89 5	0.85 1	2118.535	1$^+$	1729.613	2$^+$	[M1]	0.2497 35	α(K)=0.2034 28; α(L)=0.0353 5; α(M)=0.00832 12; α(N)=0.002141 30; α(O)=0.000448 6 α(P)=5.80×10^{-5} 8 E_γ: weighted average of 388.8 8 (1969Li10), 388.98 19 (1982Ak03), 389.1 3 (1989Si17) and 388.88 5 (1993Di09,1994Mo06). Other: 389.0 10 (1967Ma51). I_γ: weighted average of 0.87 12 (1982Ak03), 0.90 11 (1989Si17), 0.85 1 (1994Mo06) and 0.86 4 (2000Sa32).
394.04[‡&] 8	0.029 3	2482.460	(1$^-$,2$^+$)	2088.44	(1,2$^+$)			E_γ: weighted average of 394.00 19 (1982Ak03), 394.0 10 (1989Si17)

$^{214}\text{Bi}\,\beta^-$ decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								and 394.05 *8* (1993Di09).
								I_γ: weighted average of 0.033 *4* (1982Ak03), 0.019 *8* (1989Si17), 0.024 *3* (2000Sa32) and 0.032 *3* (1993Di09).
396.02 *6*	0.059 *7*	2604.68	(2^+)	2208.69	$(2^-,3)$			E_γ: weighted average of 396.3 *6* (1969Li10), 396.05 *17* (1982Ak03), 396.01 *12* (1989Si17) and 396.01 *8* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.060 *9* (1982Ak03), 0.066 *13* (1989Si17), 0.059 *7* (1993Di09) and 0.053 *10* (2000Sa32).
405.72 *2*	0.37 *2*	1015.041	(4^+)	609.318	2^+	(E2)	0.0541 *8*	α(K)=0.0344 *5*; α(L)=0.01478 *21*; α(M)=0.00377 *5*; α(N)=0.000968 *14*; α(O)=0.0001913 *27*
								α(P)=2.018×10^{-5} *28*
								E_γ: weighted average of 405.9 *4* (1969Li10), 405.82 *17* (1982Ak03), 405.74 *3* (1989Si17) and 405.71 *2* (1993Di09,1994Mo06).
								Mult.: from $\gamma\gamma$(E2)(θ): A$_2$=+0.10 *5*, A$_4$=−0.05*6* (1989Ta15).
								I_γ: weighted average of 0.38 *5* (1982Ak03), 0.36 *2* (1989Si17), 0.37 *2* (1994Mo06) and 0.39 *3* (2000Sa32).
422.0[†] *8*		2869.63	$(2^-,3^-)$	2447.701	1^-			E_γ: from 1993Di09 and 1994Mo06.
[x]426.5 *5*	0.027 *8*							E_γ: from 1969Li10.
								I_γ: from 2000Sa32.
428.07 *8*	0.025 *3*	2192.536	$(2)^+$	1764.520	1^+			E_γ: weighted average of 428.0 *5* (1989Si17) and 428.07 *8* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.023 *6* (1989Si17) and 0.025 *3* (2000Sa32); other: <0.0023 (1994Mo06).
[x]439.36 *9*	0.025 *5*							E_γ: weighted average of 439.47 *24* (1982Ak03), 439.34 *8* (1993Di09) and 440.4 *6* (1969Li10).
								I_γ: weighted average of 0.033 *5* (1982Ak03), 0.026 *5* (1993Di09) and 0.015 *5* (2000Sa32).
452.91[†] *9*	0.067 *8*	2447.701	1^-	1994.639	1^-	[M1+E2]	0.10 *6*	α(K)=0.08 *5*; α(L)=0.017 *7*; α(M)=0.0040 *15*; α(N)=0.0010 *4*; α(O)=2.1×10^{-4} *8*; α(P)=2.6×10^{-5} *12*
								E_γ: weighted average of 452.88 *20* (1982Ak03) and 452.92 *10* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.068 *11* (1982Ak03) and 0.067 *8* (1993Di09,1994Mo06).
454.80 *3*	0.64 *3*	1729.613	2^+	1274.765	3^-	[E1]	0.01251 *18*	α(K)=0.01028 *14*; α(L)=0.001705 *24*; α(M)=0.000399 *6*; α(N)=0.0001020 *14*
								α(O)=2.103×10^{-5} *29*; α(P)=2.60×10^{-6} *4*
								E_γ: weighted average of 455.0 *3* (1969Li10), 455.26 *17* (1982Ak03), 454.77 *12* (1989Si17) and 454.79 *2* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.69 *3* (1989Si17), 0.64 *3* (1994Mo06) and 0.59 *3* (2000Sa32).
461.06 *11*	0.095 *14*	2204.103	1^+	1742.99	$0^{(+)}$	[M1]	0.1581 *22*	α(K)=0.1289 *18*; α(L)=0.02229 *31*; α(M)=0.00525 *7*; α(N)=0.001351 *19*; α(O)=0.000283 *4*
								α(P)=3.66×10^{-5} *5*
								E_γ: weighted average of 460.97 *24* (1982Ak03), 460.9 *5* (1989Si17) and

$\gamma(^{214}$Po$)$ (continued)

E_γ	I_γ[@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								461.09 *11* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.078 *13* (1982Ak03), 0.085 *21* (1989Si17), 0.14 *2* (1994Mo06) and 0.10 *3* (2000Sa32).
469.76 *4*	0.290 *17*	1847.446	2^+	1377.681	2^+	[M1,E2]	0.09 *6*	α(K)=0.07 *5*; α(L)=0.015 *6*; α(M)=0.0036 *13*; α(N)=9.4×10^{-4} *35*; α(O)=1.9×10^{-4} *8*
								α(P)=2.4×10^{-5} *11*
								E_γ: weighted average of 470.0 *3* (1969Li10), 469.78 *16* (1982Ak03), 469.69 *12* (1989Si17) and 469.76 *4* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.30 *5* (1982Ak03), 0.288 *17* (1989Si17), 0.27 *2* (1994Mo06) and 0.34 *3* (2000Sa32).
474.43 *5*	0.213 *20*	2204.103	1^+	1729.613	2^+	[M1+E2]	0.09 *6*	α(K)=0.07 *5*; α(L)=0.015 *6*; α(M)=0.0035 *13*; α(N)=9.1×10^{-4} *34*; α(O)=1.9×10^{-4} *7*
								α(P)=2.3×10^{-5} *11*
								E_γ: weighted average of 474.6 *3* (1969Li10), 474.46 *17* (1982Ak03), 474.38 *10* (1989Si17) and 474.44 *5* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.23 *4* (1982Ak03), 0.26 *3* (1989Si17), 0.22 *2* (1994Mo06) and 0.190 *20* (2000Sa32).
485.93[†] *11*	0.050 *9*	2694.62	$(1^-,2^+)$	2208.69	$(2^-,3)$			E_γ: weighted average of 485.95 *24* (1982Ak03) and 485.92 *11* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.052 *11* (1982Ak03) and 0.048 *9* (1993Di09,1994Mo06).
486.6 *3*	0.049 *20*	2147.86	$(1^-,2^+)$	1661.282	2^+			E_γ: weighted average of 486.3 *5* (1989Si17) and 486.7 *3* (1993Di09,1994Mo06). Other: 487.1 *15* (1967Ma51).
								I_γ: weighted average of 0.064 *21* (1989Si17) and 0.035 *20* (2000Sa32); other: <0.012 (1994Mo06).
487.7[†] *3*	0.061 *20*	2482.460	$(1^-,2^+)$	1994.639	1^-			E_γ: weighted average of 487.25 *20* (1969Li10) and 487.95 *13* (1993Di09,1994Mo06).
								I_γ: from 1993Di09 and 1994Mo06.
494.21 *9*	0.024 *3*	2698.60	$(1,2)^+$	2204.103	1^+			E_γ: weighted average of 494.31 *20* (1982Ak03), 494.6 *10* (1989Si17) and 494.19 *9* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.031 *5* (1982Ak03), 0.019 *6* (1989Si17), 0.031 *4* (1994Mo06) and 0.019 *3* (2000Sa32).
496.89[†] *18*	0.015 *4*	2508.12	(0^+)	2010.831	(2^+)			E_γ: weighted average of 496.88 *24* (1982Ak03) and 496.90 *18* (1993Di09,1994Mo06).
								I_γ: from 1982Ak03, 1993Di09 and 1994Mo06.
501.97 *12*	0.040 *5*	2266.41	2^+	1764.520	1^+	[M1+E2]	0.08 *5*	α(K)=0.06 *4*; α(L)=0.013 *5*; α(M)=0.0030 *12*; α(N)=7.8×10^{-4} *30*; α(O)=1.6×10^{-4} *6*; α(P)=2.0×10^{-5} *9*
								E_γ: weighted average of 501.96 *20* (1982Ak03), 502.2 *6* (1989Si17) and 501.96 *15* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.041 *7* (1982Ak03), 0.039 *9* (1989Si17), 0.040 *5* (1994Mo06) and 0.035 *19* (2000Sa32).
519.90[†] *5*	0.036 *4*	2728.617	$(0^+,1,2)$	2208.69	$(2^-,3)$			E_γ: weighted average of 519.93 *20* (1982Ak03) and 519.90 *5* (1993Di09,1994Mo06).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								I_γ: weighted average of 0.035 6 (1982Ak03), 0.036 4 (1994Mo06) and 0.039 11 (2000Sa32).
524.60 7	0.037 4	2728.617	$(0^+,1,2)$	2204.103	1^+			E_γ: weighted average of 524.61 20 (1982Ak03), 525.0 6 (1989Si17) and 524.59 8 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.038 6 (1982Ak03), 0.034 13 (1989Si17), 0.037 4 (1994Mo06) and 0.039 13 (2000Sa32).
528.30[‡] 8	0.016 6	1543.370	2^+	1015.041	(4^+)			E_γ: weighted average of 528.42 24 (1982Ak03), 528 1 (1989Si17) and 528.29 8 (1993Di09).
								I_γ: weighted average of 0.025 5 (1982Ak03), 0.009 4 (1989Si17) and 0.022 11 (2000Sa32).
536.78 4	0.142 19	2266.41	2^+	1729.613	2^+	[M1+E2]	0.07 4	α(K)=0.053 33; α(L)=0.010 4; α(M)=0.0025 10; α(N)=6.4×10^{-4} 26; α(O)=1.3×10^{-4} 6
								α(P)=1.6×10^{-5} 8
								E_γ: weighted average of 536.6 8 (1969Li10), 536.83 19 (1982Ak03), 536.94 20 (1989Si17) and 536.77 4 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.14 2 (1982Ak03), 0.154 19 (1989Si17), 0.14 2 (1994Mo06) and 0.12 3 (2000Sa32).
542.81 7	0.161 22	2204.103	1^+	1661.282	2^+	[M1+E2]	0.06 4	α(K)=0.051 32; α(L)=0.010 4; α(M)=0.0024 10; α(N)=6.2×10^{-4} 25; α(O)=1.3×10^{-4} 5
								α(P)=1.6×10^{-5} 8
								E_γ: weighted average of 542.97 24 (1982Ak03), 543.4 5 (1989Si17) and 542.78 7 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.14 2 (1982Ak03), 0.183 19 (1989Si17), 0.13 2 (1994Mo06) and 0.27 4 (2000Sa32).
547.21 17	0.075 7	2208.69	$(2^-,3)$	1661.282	2^+			E_γ: weighted average of 547.05 17 (1982Ak03), 547.1 3 (1989Si17), 547.61 24 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.08 1 (1982Ak03), 0.070 15 (1989Si17), 0.074 7 (2000Sa32); other: <0.008 (1993Di09,1994Mo06).
551.9[†] 8		3000.00	$(1^-,2^+)$	2447.701	1^-			E_γ: from 1993Di09 and 1994Mo06.
572.77 7	0.171 13	1847.446	2^+	1274.765	3^-	[E1]	0.00779 11	α(K)=0.00642 9; α(L)=0.001042 15; α(M)=0.0002433 34; α(N)=6.22×10^{-5} 9
								α(O)=1.287×10^{-5} 18; α(P)=1.610×10^{-6} 23
								E_γ: weighted average of 572.6 4 (1969Li10), 572.74 19 (1982Ak03), 572.83 15 (1989Si17) and 572.76 7 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.17 2 (1982Ak03), 0.177 13 (1989Si17), 0.16 2 (1994Mo06) and 0.16 4 (2000Sa32).
579.14[†] 16		1994.639	1^-	1415.498	0^+	[E1]	0.00762 11	α(K)=0.00629 9; α(L)=0.001019 14; α(M)=0.0002377 33; α(N)=6.08×10^{-5} 9
								α(O)=1.258×10^{-5} 18; α(P)=1.574×10^{-6} 22
								E_γ: from 1993Di09 and 1994Mo06.
581.9[†] 8		2785.97	$(1,2^+)$	2204.103	1^+			E_γ: from 1993Di09 and 1994Mo06.
595.24 7	0.038 3	2010.831	(2^+)	1415.498	0^+			E_γ: weighted average of 595.24 24 (1982Ak03), 596.0 8 (1989Si17) and

$^{214}\text{Bi}\,\beta^-$ **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ [@]	E_i(level)	J^π_i	E_f	J^π_f	Mult.	α	Comments
								595.23 *7* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.035 *7* (1982Ak03), 0.038 *4* (1994Mo06) and 0.039 *6* (2000Sa32); other: 0.26 *6* (1989Si17).
598.5[†] *8*		2802.54		2204.103	1^+			E_γ: from 1993Di09 and 1994Mo06.
600.0[‡] *5*	0.017 *6*	2719.26	1^+	2118.535	1^+	[M1+E2]	0.050 *29*	$\alpha(K)=0.040$ *24*; $\alpha(L)=0.0077$ *33*; $\alpha(M)=0.0018$ *8*; $\alpha(N)=4.7\times10^{-4}$ *20*; $\alpha(O)=1.0\times10^{-4}$ *4*
								$\alpha(P)=1.2\times10^{-5}$ *6*
								E_γ,I_γ: from 1989Si17.
609.321 *7*	100	609.318	2^+	0.0	0^+	E2	0.02038 *29*	$\alpha(K)=0.01487$ *21*; $\alpha(L)=0.00416$ *6*; $\alpha(M)=0.001030$ *14*; $\alpha(N)=0.000265$ *4*; $\alpha(O)=5.33\times10^{-5}$ *7*
								$\alpha(P)=6.06\times10^{-6}$ *8*
								E_γ: weighted average of 609.31 *16* (1982Ak03), 609.32 *2* (1989Si17), 609.313 *7* (1993Di09,1994Mo06) and 609.329 *7* (2002MoZP). Other: 609.37 *16* (1952Mu45), 609 *3* (1967Bu17) and 609.3 *3* (1967Ma51).
								Mult.: from $\alpha(K)\text{exp}=0.0152$ *5*; K/L=3.63 *20*; K/M≈11.5 (1960Lu07); other: $\alpha(K)\text{exp}=0.015$ (1967Ma51); K/L=3.43 *10* and K/M=9.2 *10* (1960Ma05).
615.76 *6*	0.12 *2*	1890.306	$(2)^+$	1274.765	3^-			E_γ: weighted average of 615.8 *6* (1969Li10), 615.49 *36* (1982Ak03), 615.78 *6* (1989Si17) and 615.68 *13* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.13 *5* (1982Ak03), 0.15 *6* (1989Si17), 0.12 *2* (1994Mo06) and 0.11 *3* (2000Sa32).
617.02[‡] *13*	0.059 *6*	1994.639	1^-	1377.681	2^+	[E1]	0.00672 *9*	$\alpha(K)=0.00555$ *8*; $\alpha(L)=0.000894$ *13*; $\alpha(M)=0.0002085$ *29*; $\alpha(N)=5.34\times10^{-5}$ *7*
								$\alpha(O)=1.105\times10^{-5}$ *15*; $\alpha(P)=1.386\times10^{-6}$ *19*
								E_γ: weighted average of 617.01 *13* (1993Di09), 616.99 *36* (1982Ak03) and 617.1 *3* (1989Si17).
								I_γ: weighted average of 0.066 *44* (1982Ak03), 0.053 *6* (1993Di09), 0.075 *26* (1989Si17), and 0.077 *11* (2000Sa32).
626.4[‡] *6*	0.009 *3*	2893.60	$(1,2^+)$	2266.41	2^+			E_γ: from 1989Si17.
								I_γ: from 2000Sa32; other: ≈0.005 (1989Si17).
630.81[†] *7*	0.036 *4*	2719.26	1^+	2088.44	$(1,2^+)$			E_γ: weighted average of 630.93 *17* (1982Ak03) and 630.79 *7* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.039 *6* (1982Ak03) and 0.035 *4* (1993Di09,1994Mo06).
631.2[‡] *4*	0.039 *5*	2360.97	$(1,2^+)$	1729.613	2^+			E_γ: from 1989Si17.
								I_γ: weighted average of 0.036 *13* (1989Si17), 0.039 *5* (2000Sa32).
633.09 *5*	0.122 *10*	2010.831	(2^+)	1377.681	2^+			E_γ: weighted average of 633.6 *4* (1969Li10), 633.17 *17* (1982Ak03), 633.14 *10* (1989Si17) and 633.06 *5* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.12 *2* (1982Ak03), 0.130 *13* (1989Si17), 0.11 *1* (1994Mo06) and 0.130 *10* (2000Sa32).
634.77[†] *16*	0.014 *5*	2482.460	$(1^-,2^+)$	1847.446	2^+			E_γ: weighted average of 634.84 *24* (1982Ak03) and 634.72 *21*

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ @	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								(1993Di09,1994Mo06).
								I_γ: from 1994Mo06.
639.61 *10*	0.070 *10*	2017.315	0^+	1377.681	2^+	[E2]	0.01832 *26*	α(K)=0.01352 *19*; α(L)=0.00363 *5*; α(M)=0.000896 *13*;
								α(N)=0.0002301 *32*
								α(O)=4.65×10^{-5} *7*; α(P)=5.33×10^{-6} *7*
								E_γ: weighted average of 639 *1* (1969Li10), 639.62 *17* (1982Ak03),
								639.37 *20* (1989Si17) and 639.67 *10* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.061 *11* (1982Ak03), 0.068 *11* (1989Si17),
								0.065 *10* (1994Mo06) and 0.085 *10* (2000Sa32).
649.20 *5*	0.121 *15*	2192.536	$(2)^+$	1543.370	2^+			E_γ: weighted average of 649.4 *4* (1969Li10), 649.22 *17* (1982Ak03),
								649.18 *7* (1989Si17) and 649.23 *10* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.114 *15* (1982Ak03), 0.128 *15* (1989Si17),
								0.13 *2* (1994Mo06) and 0.10 *3* (2000Sa32).
651.50† *16*	<0.004	2662.33	(2^+)	2010.831	(2^+)			E_γ: from 1993Di09 and 1994Mo06.
								I_γ: from 1994Mo06.
658.76 *21*	0.031 *6*	2423.25	$(1,2^+)$	1764.520	1^+			E_γ: weighted average of 658.61 *24* (1982Ak03), 658.8 *5* (1989Si17)
								and 658.86 *21* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.037 *8* (1982Ak03), 0.019 *6* (1989Si17), 0.046
								8 (1994Mo06) and 0.030 *8* (2000Sa32).
660.87 *14*	0.104 *11*	2204.103	1^+	1543.370	2^+	[M1+E2]	0.039 *22*	α(K)=0.031 *19*; α(L)=0.0059 *26*; α(M)=0.0014 *6*; α(N)=3.6×10^{-4} *15*;
								α(O)=7.5×10^{-5} *33*
								α(P)=9.E−6 *5*
								E_γ: weighted average of 660.74 *24* (1982Ak03), 661.4 *6* (1989Si17)
								and 660.89 *14* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.077 *13* (1982Ak03), 0.09 *4* (1989Si17), 0.11
								2 (1994Mo06) and 0.120 *10* (2000Sa32).
665.446 *9*	3.390 *19*	1274.765	3^-	609.318	2^+	E1	0.00579 *8*	α(K)=0.00479 *7*; α(L)=0.000767 *11*; α(M)=0.0001788 *25*;
								α(N)=4.58×10^{-5} *6*
								α(O)=9.48×10^{-6} *13*; α(P)=1.193×10^{-6} *17*
								E_γ: weighted average of 665.6 *2* (1969Li10), 665.47 *16* (1982Ak03),
								665.453 *22* (1989Si17), 665.49 *9* (1993Di09,1994Mo06) and 665.444
								10 (2002MoZP). Other: 670 *4* (1967Bu17) and 665.8 *5* (1967Ma51).
								Mult.: from $\gamma\gamma$(E2)(θ): A$_2$=−0.08 *5*, A$_4$=+0.10 *6* (1986Ta16) and
								α(K)exp=0.0046 *17* deduced from I(ce)665γ/I(ce)609γ=0.010 *4*
								(1960Lu07).
								I_γ: weighted average of 3.36 *37* (1982Ak03), 3.39 *11* (1989Si17), 3.51
								20 (1994Mo06), 3.42 *8* (1998Mo14), 3.33 *10* (2000Sa32), 3.386 *21*
								(2002MoZP) and 3.42 *6* (2004Mo07).
677.41† *15*	0.012 *5*	2694.62	$(1^-,2^+)$	2017.315	0^+			E_γ: weighted average of 677.41 *21* (1982Ak03) and 677.41 *15*
								(1993Di09,1994Mo06).
								I_γ: from 1982Ak03, 1993Di09 and 1994Mo06.
683.21 *6*	0.180 *19*	2447.701	1^-	1764.520	1^+	[E1]	0.00551 *8*	α(K)=0.00456 *6*; α(L)=0.000728 *10*; α(M)=0.0001696 *24*;
								α(N)=4.34×10^{-5} *6*

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ[@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								α(O)=9.00×10^{-6} *13*; α(P)=1.133×10^{-6} *16* E_γ: weighted average of 683.3 *5* (1969Li10), 683.13 *17* (1982Ak03), 683.22 *6* (1989Si17) and 683.2 *9* (1993Di09,1994Mo06). I_γ: weighted average of 0.18 *3* (1982Ak03), 0.171 *19* (1989Si17), 0.18 *2* (1994Mo06) and 0.190 *20* (2000Sa32).
687.56 *21*	0.015 *4*	2698.60	$(1,2)^+$	2010.831	(2^+)			E_γ: weighted average of 687.51 *24* (1982Ak03), 687.7 *6* (1989Si17) and 687.58 *21* (1993Di09,1994Mo06). I_γ: weighted average of 0.016 *5* (1982Ak03), 0.013 *6* (1989Si17), 0.015 *4* (1994Mo06) and 0.014 *5* (2000Sa32).
693.1[‡&] *2*	0.012 *4*	2423.25	$(1,2^+)$	1729.613	2^+			E_γ: weighted average of 693.3 *8* (1969Li10), 693.00 *24* (1982Ak03) and 693.3 *5* (1989Si17). I_γ: weighted average of 0.012 *5* (1982Ak03), 0.013 *6* (1989Si17) and 0.012 *4* (2000Sa32).
697.89 *10*	0.132 *16*	1712.93	(3^+)	1015.041	(4^+)	[M1,E2]	0.034 *19*	α(K)=0.027 *16*; α(L)=0.0051 *23*; α(M)=0.0012 *5*; α(N)=3.1×10^{-4} *13*; α(O)=6.5×10^{-5} *29* α(P)=8.E−6 *4* E_γ: weighted average of 698.4 *4* (1969Li10), 697.83 *17* (1982Ak03), 697.90 *25* (1989Si17) and 697.87 *10* (1993Di09, 1994Mo06). I_γ: weighted average of 0.14 *2* (1982Ak03), 0.081 *15* (1989Si17), 0.14 *2* (1994Mo06) and 0.150 *10* (2000Sa32).
699.86[†] *18*	0.040 *9*	2694.62	$(1^-,2^+)$	1994.639	1^-			E_γ: weighted average of 699.94 *27* (1982Ak03) and 699.82 *18* (1993Di09,1994Mo06). I_γ: weighted average of 0.044 *9* (1982Ak03) and 0.035 *10* (1993Di09,1994Mo06).
703.10 *4*	1.06 *4*	2118.535	1^+	1415.498	0^+	[M1]	0.0519 *7*	α(K)=0.0424 *6*; α(L)=0.00725 *10*; α(M)=0.001703 *24*; α(N)=0.000438 *6*; α(O)=9.17×10^{-5} *13* α(P)=1.188×10^{-5} *17* E_γ: weighted average of 703.1 *2* (1969Li10), 703.06 *16* (1982Ak03), 703.11 *4* (1989Si17) and 703.09 *9* (1993Di09,1994Mo06). Other: 703.2 *8* (1967Ma51). I_γ: weighted average of 1.08 *15* (1982Ak03), 1.02 *4* (1989Si17), 1.11 *7* (1994Mo06) and 1.12 *8* (2000Sa32).
704.96 *25*	0.103 *21*	2447.701	1^-	1742.99	$0^{(+)}$	[E1]	0.00519 *7*	α(K)=0.00429 *6*; α(L)=0.000684 *10*; α(M)=0.0001593 *22*; α(N)=4.08×10^{-5} *6* α(O)=8.45×10^{-6} *12*; α(P)=1.066×10^{-6} *15* E_γ: weighted average of 704.9 *5* (1989Si17) and 704.97 *25* (1993Di09,1994Mo06). I_γ: weighted average of 0.094 *21* (1989Si17), 0.11 *3* (1994Mo06) and 0.113 *29* (2000Sa32).
708.95 *23*	0.027 *3*	2719.26	1^+	2010.831	(2^+)			E_γ: weighted average of 709.12 *30* (1982Ak03) and 708.7 *6* (1989Si17) and 708.89 *23* (1993Di09,1994Mo06). I_γ: weighted average of 0.031 *9* (1982Ak03), 0.030 *9* (1989Si17), 0.042 *11* (1994Mo06) and 0.025 *3* (2000Sa32).

$^{214}\text{Bi}\,\beta^-$ **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ[@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α	Comments
710.27[†&] 8		2423.25	$(1,2^+)$	1712.93	(3^+)				E_γ: from 1993Di09 and 1994Mo06.
710.69 10	0.163 4	2088.44	$(1,2^+)$	1377.681	2^+				E_γ: weighted average of 710.8 6 (1969Li10), 710.66 17 (1982Ak03), 710.8 2 (1989Si17) and 710.67 10 (1993Di09,1994Mo06). Other: 710 4 (1967Bu17).
									I_γ: weighted average of 0.16 2 (1982Ak03), 0.162 4 (1989Si17), 0.16 2 (1994Mo06) and 0.170 9 (2000Sa32).
719.86 3	0.90 3	1994.639	1^-	1274.765	3^-	E2		0.01424 20	α(K)=0.01075 15; α(L)=0.00264 4; α(M)=0.000646 9; α(N)=0.0001659 23; α(O)=3.37$\times10^{-5}$ 5 α(P)=3.93$\times10^{-6}$ 6
									E_γ: weighted average of 719.9 2 (1969Li10), 719.87 17 (1982Ak03), 719.86 3 (1989Si17) and 719.91 12 (1993Di09,1994Mo06). Other: 720.2 8 (1967Ma51).
									I_γ: weighted average of 0.90 13 (1982Ak03), 0.87 4 (1989Si17), 0.91 8 (1994Mo06) and 0.91 3 (2000Sa32).
									Mult.: from α(K)exp=0.0099 (1967Ma51).
723.01 12	0.080 9	2266.41	2^+	1543.370	2^+	E2		0.01411 20	α(K)=0.01066 15; α(L)=0.00261 4; α(M)=0.000638 9; α(N)=0.0001639 23; α(O)=3.33$\times10^{-5}$ 5 α(P)=3.89$\times10^{-6}$ 5
									E_γ: weighted average of 722.93 19 (1982Ak03), 723.4 3 (1989Si17) and 722.98 12 (1993Di09,1994Mo06).
									Mult.: α(K)exp=0.010 4 (1960Lu07).
									I_γ: weighted average of 0.075 11 (1982Ak03), 0.10 5 (1989Si17), 0.073 9 (1994Mo06) and 0.107 15 (2000Sa32).
[x]727 1	0.08 3								E_γ: from 1969Li10. I_γ: from 2000Sa32.
733.81 10	0.089 8	2728.617	$(0^+,1,2)$	1994.639	1^-				E_γ: weighted average of 734.3 6 (1969Li10), 733.90 17 (1982Ak03), 733.65 10 (1989Si17) and 733.92 10 (1993Di09,1994Mo06).
									I_γ: weighted average of 0.086 12 (1982Ak03), 0.102 13 (1989Si17), 0.085 8 (1994Mo06) and 0.092 17 (2000Sa32).
740.77 13	0.095 5	2118.535	1^+	1377.681	2^+	[M1,E2]		0.029 16	α(K)=0.024 13; α(L)=0.0044 19; α(M)=0.0010 4; α(N)=2.7$\times10^{-4}$ 11; α(O)=5.6$\times10^{-5}$ 24 α(P)=7.0$\times10^{-6}$ 33
									E_γ: weighted average of 740.83 20 (1982Ak03), 741.5 10 (1989Si17) and 740.73 13 (1993Di09,1994Mo06).
									I_γ: weighted average of 0.11 2 (1982Ak03), 0.09 4 (1989Si17), 0.088 13 (1994Mo06) and 0.095 5 (2000Sa32).
752.84 3	0.29 2	2482.460	$(1^-,2^+)$	1729.613	2^+				E_γ: weighted average of 753.0 3 (1969Li10), 752.84 17 (1982Ak03), 752.84 3 (1989Si17) and 752.86 9 (1993Di09,1994Mo06).
									I_γ: weighted average of 0.30 4 (1982Ak03), 0.29 3 (1989Si17), 0.28 2 (1994Mo06) and 0.28 4 (2000Sa32).
768.360 7	10.76 3	1377.681	2^+	609.318	2^+	M1+E2	3.81 13	0.01429 24	α(K)=0.01105 19; α(L)=0.00245 4; α(M)=0.000595 9;

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ @	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								α(N)=0.0001529 23; α(O)=3.12×10^{-5} 5
								α(P)=3.74×10^{-6} 6
								E_γ: weighted average of 768.4 2 (1969Li10), 768.36 16 (1982Ak03), 768.361
								18 (1989Si17), 768.356 10 (1993Di09,1994Mo06) and 768.362 7
								(2002MoZP). Other: 768.8 5 (1967Ma51) and 770 4 (1967Bu17).
								Mult.,δ: α(K)exp=0.0112 8; K/L=4.1 5 (1960Lu07); others: K/L=3.95 20 and
								K/M=10.5 15 (1960Ma05); K/L=4.6 12 (1957Ni11); α(K)exp=0.011
								(1967Ma51); $\gamma\gamma$(E2)(θ): A$_2$=−0.29 6, A$_4$=0.36 10 (1986Ta16).
								I_γ: weighted average of 11.9 17 (1982Ak03), 10.60 19 (1989Si17), 10.91 8
								(1994Mo06), 10.83 22 (1998Mo14), 10.39 31 (2000Sa32), 10.77 3
								(2002MoZP) and 10.68 5 (2004Mo07).
769.7‡ 5	0.064 21	2147.86	(1$^-$,2$^+$)	1377.681	2$^+$			E_γ: from 1989Si17. Other: 768.8 5 (1967Ma51).
								I_γ: from 1989Si17.
786.35 16	0.70 9	2447.701	1$^-$	1661.282	2$^+$	[E1]	0.00422 6	α(K)=0.00350 5; α(L)=0.000552 8; α(M)=0.0001285 18; α(N)=3.29×10^{-5} 5;
								α(O)=6.83×10^{-6} 10
								α(P)=8.65×10^{-7} 12
								E_γ: weighted average of 786.1 4 (1969Li10), 786.1 4 (1989Si17) and 786.43
								16 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.68 20 (1989Si17) and 0.70 10 (2000Sa32).
788.2 3	0.032 6	2204.103	1$^+$	1415.498	0$^+$	[M1]	0.0385 5	α(K)=0.0315 4; α(L)=0.00536 8; α(M)=0.001260 18; α(N)=0.000324 5;
								α(O)=6.79×10^{-5} 10
								α(P)=8.80×10^{-6} 12
								E_γ: weighted average of 787.85 30 (1982Ak03), 789.0 5 (1989Si17) and 788.2
								5 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.057 14 (1982Ak03), 0.026 6 (1989Si17), 0.041 8
								(1994Mo06) and 0.020 10 (2000Sa32).
^{x}803.1	0.010 3							E_γ,I_γ: from 2000Sa32.
806.179 10	2.778 14	1415.498	0$^+$	609.318	2$^+$	E2	0.01127 16	α(K)=0.00867 12; α(L)=0.001972 28; α(M)=0.000480 7; α(N)=0.0001232 17
								α(O)=2.512×10^{-5} 35; α(P)=2.98×10^{-6} 4
								E_γ: weighted average of 806.2 2 (1969Li10), 806.17 17 (1982Ak03), 806.174
								18 (1989Si17), 806.18 9 (1993Di09,1994Mo06) and 806.181 10
								(2002MoZP). Other: 806.5 5 (1967Ma51).
								Mult.: from α(K)exp=0.0073 12 (1960Lu07); other: α(K)exp=0.083
								(1967Ma51); K/L=3.0 15 (1957Ni11); $\gamma\gamma$(E2)(θ): A$_2$=0.22 3, A$_4$=1.27 4
								(1986Ta16).
								I_γ: weighted average of 2.92 43 (1982Ak03), 2.67 6 (1989Si17), 2.90 22
								(1994Mo06), 2.81 24 (1998Mo14), 2.76 11 (2000Sa32), 2.777 14
								(2002MoZP) and 2.791 20 (2004Mo07).
814.92 11	0.086 8	2192.536	(2)$^+$	1377.681	2$^+$			E_γ: weighted average of 815 1 (1969Li10), 814.86 19 (1982Ak03), 815.08 15
								(1989Si17) and 814.86 11 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.087 13 (1982Ak03), 0.087 15 (1989Si17), 0.081 8
								(1994Mo06) and 0.110 20 (2000Sa32).
821.18 3	0.36 3	2482.460	(1$^-$,2$^+$)	1661.282	2$^+$			E_γ: weighted average of 821.2 3 (1969Li10), 821.17 17 (1982Ak03), 821.18 3

$^{214}\text{Bi}\,\beta^-$ **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								(1989Si17) and 821.19 10 (1993Di09,1994Mo06). Other: 821.7 10 (1967Ma51) and 825 5 (1967Bu17).
								I_γ: weighted average of 0.37 6 (1982Ak03), 0.33 3 (1989Si17), 0.36 3 (1994Mo06) and 0.37 3 (2000Sa32).
826.41 11	0.23 3	2204.103	1^+	1377.681	2^+	[M1+E2]	0.022 12	α(K)=0.018 10; α(L)=0.0033 14; α(M)=7.8×10^{-4} 33; α(N)=2.0×10^{-4} 9; α(O)=4.2×10^{-5} 18
								α(P)=5.3×10^{-6} 25
								E_γ: weighted average of 826 1 (1969Li10), 826.40 19 (1982Ak03), 826.2 3 (1989Si17) and 826.44 11 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.29 4 (1982Ak03), 0.200 15 (1989Si17), 0.28 3 (1994Mo06) and 0.29 4 (2000Sa32).
832.37 11	0.062 6	1847.446	2^+	1015.041	(4^+)			E_γ: weighted average of 832.0 6 (1969Li10), 832.35 19 (1982Ak03), 832.35 20 (1989Si17) and 832.39 11 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.064 10 (1982Ak03), 0.049 11 (1989Si17), 0.062 6 (1994Mo06) and 0.080 13 (2000Sa32).
840.4[‡] 5	0.021 6	2604.68	(2^+)	1764.520	1^+			E_γ: from 1989Si17.
								I_γ: weighted average of 0.019 6 (1989Si17) and 0.025 8 (2000Sa32).
847.14[†] 11	0.055 7	2694.62	$(1^-,2^+)$	1847.446	2^+			E_γ: weighted average of 847.07 19 (1982Ak03) and 847.16 11 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.052 12 (1982Ak03), 0.057 7 (1994Mo06) and 0.053 15 (2000Sa32).
866.0[†] 8		2630.84	$(1,2^+)$	1764.520	1^+			E_γ: from 1993Di09 and 1994Mo06.
872.95 19	0.038 9	2147.86	$(1^-,2^+)$	1274.765	3^-			E_γ: weighted average of 872.51 36 (1982Ak03), 873.0 5 (1989Si17) and 873.07 19 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.032 10 (1982Ak03), 0.036 13 (1989Si17), 0.042 9 (1994Mo06) and 0.040 10 (2000Sa32).
878.02[†] 12	0.024 6	2293.362	$(1^+,2^+)$	1415.498	0^+			E_γ: weighted average 877.91 36 (1982Ak03) and 878.03 12 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.022 7 (1982Ak03) and 0.026 6 (1993Di09,1994Mo06).
891.8[†] 3		2604.68	(2^+)	1712.93	(3^+)			E_γ: from 1993Di09 and 1994Mo06.
904.35 9	0.16 2	2447.701	1^-	1543.370	2^+	[E1]	0.00326 5	α(K)=0.00270 4; α(L)=0.000423 6; α(M)=9.83×10^{-5} 14; α(N)=2.517×10^{-5} 35; α(O)=5.23×10^{-6} 7
								α(P)=6.66×10^{-7} 9
								E_γ: weighted average of 904.1 5 (1969Li10), 904.30 17 (1982Ak03), 904.25 25 (1989Si17) and 904.38 9 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.15 2 (1982Ak03), 0.23 3 (1989Si17), 0.14 2 (1994Mo06) and 0.16 4 (2000Sa32).
915.73 15	0.053 6	2293.362	$(1^+,2^+)$	1377.681	2^+			E_γ: weighted average of 915.68 24 (1982Ak03), 915.8 4 (1989Si17) and 915.74 15 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.070 14 (1982Ak03), 0.049 13 (1989Si17), 0.065 8 (1994Mo06) and 0.043 6 (2000Sa32).

$^{214}\text{Bi}\,\beta^-$ decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ[@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α	Comments
917.7[†] 3	0.010 7	2192.536	$(2)^+$	1274.765	3^-				E_γ: weighted average of 917.73 36 (1982Ak03) and 917.73 29 (1993Di09,1994Mo06). I_γ: from 1982Ak03 and 1994Mo06.
930.2 2	0.058 17	2694.62	$(1^-,2^+)$	1764.520	1^+				E_γ: weighted average of 930.5 5 (1989Si17) and 930.15 17 (1993Di09,1994Mo06). I_γ: weighted average of 0.043 11 (1989Si17), 0.10 2 (1993Di09,1994Mo06) and 0.08 3 (2000Sa32).
934.056 8	6.81 3	1543.370	2^+	609.318	2^+	M1+E2	0.37 24	0.0228 25	α(K)=0.0187 21; α(L)=0.00319 31; α(M)=0.00075 7; α(N)=0.000193 19; α(O)=4.0×10^{-5} 4 α(P)=5.2×10^{-6} 5 E_γ: weighted average of 934.0 2 (1969Li10), 934.052 20 (1989Si17), 934.061 12 (1993Di09,1994Mo06) and 934.054 8 (2002MoZP). Mult.,δ: from α(K)exp=0.0188 9; K/L=5.3 7 (1960Lu07); K/L=5.4 3 (1957Ni11); others: α(K)exp=0.0188 (1967Ma51); $\gamma\gamma$(E2)(θ): A$_2$=0.41 6, A$_4$=0.06 8 (1986Ta16). I_γ: weighted average of 7.0 9 (1982Ak03), 6.87 13 (1989Si17), 6.81 14 (1998Mo14), 6.88 5 (1994Mo06), 6.70 20 (2000Sa32), 6.83 4 (2002MoZP) and 6.78 3 (2004Mo07).
934.1 2	0.107 21	2208.69	$(2^-,3)$	1274.765	3^-				E_γ: weighted average of 934.0 5 (1989Si17) and 934.10 20 (1993Di09,1994Mo06). I_γ: from 1989Si17.
934.5[‡] 5	0.021 6	2698.60	$(1,2)^+$	1764.520	1^+				E_γ,I_γ: from 1989Si17.
938.65[†] 16	0.028 8	2785.97	$(1,2^+)$	1847.446	2^+				E_γ: weighted average of 938.64 20 (1982Ak03) and 938.65 16 (1993Di09,1994Mo06). I_γ: weighted average of 0.030 8 (1982Ak03) and 0.028 8 (1993Di09,1994Mo06).
939.6[‡] 5	0.043 9	2482.460	$(1^-,2^+)$	1543.370	2^+				E_γ: from 1989Si17. I_γ: weighted average of 0.038 13 (1989Si17) and 0.045 9 (2000Sa32).
943.33 12	0.036 6	2604.68	(2^+)	1661.282	2^+				E_γ: weighted average of 943.31 20 (1982Ak03), 943.3 4 (1989Si17) and 943.34 12 (1993Di09,1994Mo06). I_γ: weighted average of 0.034 8 (1982Ak03), 0.036 13 (1989Si17), 0.037 6 (1994Mo06) and 0.050 26 (2000Sa32).
949.8[†] 3	0.011 5	2662.33	(2^+)	1712.93	(3^+)				E_γ: weighted average of 949.81 36 (1982Ak03) and 949.83 50 (1993Di09,1994Mo06). I_γ: weighted average of 0.009 6 (1982Ak03) and 0.012 5 (1993Di09,1994Mo06).
952.2[†] 8	0.013 5	2694.62	$(1^-,2^+)$	1742.99	$0^{(+)}$				E_γ,I_γ: from 1993Di09 and 1994Mo06.
961.66 17	0.023 3	2505.34	$(1^-,2^+)$	1543.370	2^+				E_γ: weighted average of 961.84 36 (1982Ak03), 962 1 (1989Si17) and 961.61 17 (1993Di09,1994Mo06). I_γ: weighted average of 0.046 12 (1982Ak03), 0.021 10 (1989Si17), 0.03 2 (1994Mo06) and 0.022 3 (2000Sa32).

$^{214}\text{Bi}\,\beta^-$ **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
964.08 *3*	0.82 *4*	2728.617	$(0^+,1,2)$	1764.520	1^+			E_γ: weighted average of 964.1 *3* (1969Li10), 964.10 *17* (1982Ak03), 964.08 *3* (1989Si17) and 964.11 *10* (1993Di09,1994Mo06). Other: 964.8 *10* (1967Ma51). I_γ: weighted average of 0.82 *10* (1982Ak03), 0.83 *4* (1989Si17), 0.80 *5* (1994Mo06) and 0.80 *7* (2000Sa32).
965.00[‡] *10*	0.023 *7*	2508.12	(0^+)	1543.370	2^+			E_γ: from 1989Si17. Placement from 965γ and 934γ coincidence (1989Si17). Possible placement between the 2694- and 1729-keV levels from the energy fit (1994Mo06). I_γ: weighted average of 0.021 *10* (1989Si17) and 0.024 *7* (2000Sa32).
965.00[†] *10*		2694.62	$(1^-,2^+)$	1729.613	2^+			E_γ: from 1993Di09 and 1994Mo06.
976.18 *12*	0.033 *5*	2719.26	1^+	1742.99	$0^{(+)}$			E_γ: weighted average of 976.18 *19* (1982Ak03) and 976.2 *10* (1989Si17) and 976.18 *12* (1993Di09,1994Mo06). I_γ: weighted average of 0.029 *8* (1982Ak03), 0.049 *26* (1989Si17), 0.033 *5* (1994Mo06) and 0.035 *13* (2000Sa32).
[x]989.29 *17*	0.017 *6*							E_γ: weighted average of 989.04 *36* (1982Ak03) and 989.34 *17* (1993Di09). I_γ: weighted average of 0.009 *6* (1982Ak03) and 0.022 *5* (1993Di09).
991.56[†] *19*	0.021 *5*	2266.41	2^+	1274.765	3^-	[E1]	0.00276 *4*	α(K)=0.002293 *32*; α(L)=0.000356 *5*; α(M)=8.27$\times10^{-5}$ *12*; α(N)=2.119$\times10^{-5}$ *30* α(O)=4.41$\times10^{-6}$ *6*; α(P)=5.63$\times10^{-7}$ *8* E_γ: weighted average of 991.83 *36* (1982Ak03) and 991.49 *19* (1993Di09,1994Mo06). I_γ: weighted average of 0.015 *7* (1982Ak03), 0.022 *5* (1993Di09,1994Mo06) and 0.050 *22* (2000Sa32).
1011.8[†] *8*		3022.3	$(2^-,3,4^+)$	2010.831	(2^+)			E_γ: from 1993Di09 and 1994Mo06.
1013.4[‡] *10*	0.029 *8*	2860.93	$(1,2^+)$	1847.446	2^+			E_γ: from 1989Si17, not assigned to ^{214}Po in 1993Di09. I_γ: weighted average of 0.021 *13* (1989Si17) and 0.034 *11* (2000Sa32).
1021.4 *3*	0.033 *6*	2785.97	$(1,2^+)$	1764.520	1^+			E_γ: weighted average of 1020.5 *6* (1989Si17) and 1021.53 *19* (1993Di09,1994Mo06). I_γ: weighted average of 0.026 *13* (1989Si17), 0.034 *6* (1994Mo06) and 0.036 *15* (2000Sa32).
1032.39 *8*	0.14 *2*	2447.701	1^-	1415.498	0^+	[E1]	0.00257 *4*	α(K)=0.002134 *30*; α(L)=0.000331 *5*; α(M)=7.68$\times10^{-5}$ *11*; α(N)=1.966$\times10^{-5}$ *28* α(O)=4.09$\times10^{-6}$ *6*; α(P)=5.23$\times10^{-7}$ *7* E_γ: weighted average of 1032.5 *6* (1969Li10), 1032.37 *8* (1989Si17) and 1032.46 *17* (1993Di09,1994Mo06). I_γ: weighted average of 0.21 *4* (1989Si17), 0.13 *1* (1994Mo06) and 0.17 *3* (2000Sa32).
1033.31 *18*	0.045 *7*	2694.62	$(1^-,2^+)$	1661.282	2^+			E_γ: weighted average of 1033.2 *10* (1989Si17) and 1033.31 *18* (1993Di09,1994Mo06). I_γ: weighted average of 0.051 *13* (1989Si17) and 0.043 *7* (2000Sa32).
1038.0[‡] *6*	0.017 *4*	2698.60	$(1,2)^+$	1661.282	2^+			E_γ,I_γ: from 1989Si17.
1038.0[†] *2*	0.018 *3*	2802.54		1764.520	1^+			E_γ,I_γ: from 1993Di09 and 1994Mo06; other: 0.030 *10* (2000Sa32).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
1045.73 *16*	0.047 *6*	2423.25	(1,2$^+$)	1377.681	2$^+$			E_γ: weighted average of 1045.4 *6* (1989Si17) and 1045.76 *17* (1993Di09,1994Mo06). I_γ: weighted average of 0.029 *15* (1989Si17), 0.051 *6* (1994Mo06) and 0.037 *20* (2000Sa32).
1051.96 *3*	0.688 *22*	1661.282	2$^+$	609.318	2$^+$	[M1,E2]	0.012 *6*	α(K)=0.010 *5*; α(L)=0.0018 *7*; α(M)=4.2×10^{-4} *17*; α(N)=1.1×10^{-4} *4*; α(O)=2.3×10^{-5} *9* α(P)=2.9×10^{-6} *13* E_γ: weighted average of 1052.0 *3* (1969Li10), 1051.96 *3* (1989Si17) and1051.97 *15* (1993Di09, 1994Mo06). Other: 1052.4 *1.5* (1967Ma51). I_γ: weighted average of 0.68 *3* (1989Si17), 0.66 *5* (1994Mo06) and 0.72 *4* (2000Sa32).
(1058.1[‡])	0.018 *6*	2719.26	1$^+$	1661.282	2$^+$	[M1+E2]	0.012 *6*	α(K)=0.010 *5*; α(L)=0.0018 *7*; α(M)=4.2×10^{-4} *17*; α(N)=1.1×10^{-4} *4*; α(O)=2.2×10^{-5} *9* α(P)=2.8×10^{-6} *12* E_γ: from 1989Si17, not assigned to ^{214}Po in 1993Di09. I_γ: from 2000Sa32.
(1062.4[‡])	0.028 *17*	2826.82	(1,2$^+$)	1764.520	1$^+$			E_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09. I_γ: from 2000Sa32; other: <0.021 (1989Si17).
1067.4 *3*	0.056 *13*	2728.617	(0$^+$,1,2)	1661.282	2$^+$			E_γ: weighted average of 1066.9 *8* (1989Si17) and 1067.50 *27* (1993Di09,1994Mo06). I_γ: weighted average of 0.062 *26* (1989Si17), 0.055 *20* (1994Mo06) and 0.051 *24* (2000Sa32).
1069.97 *8*	0.60 *4*	2447.701	1$^-$	1377.681	2$^+$	[E1]	2.41×10^{-3} *3*	α(K)=0.002003 *28*; α(L)=0.000310 *4*; α(M)=7.19×10^{-5} *10*; α(N)=1.842×10^{-5} *26* α(O)=3.84×10^{-6} *5*; α(P)=4.91×10^{-7} *7* E_γ: weighted average of 1070.0 *3* (1969Li10), 1069.96 *8* (1989Si17) and 1070.01 *16* (1993Di09,1994Mo06). I_γ: weighted average of 0.62 *4* (1989Si17), 0.56 *4* (1994Mo06) and 0.65 *6* (2000Sa32).
(1087.4[‡])	0.033 *15*	2630.84	(1,2$^+$)	1543.370	2$^+$			E_γ: from 1989Si17; assigned to ^{210}Pb in 1993Di09. I_γ: from 2000Sa32.
1103.70 *19*	0.21 *3*	1712.93	(3$^+$)	609.318	2$^+$	[M1,E2]	0.011 *5*	α(K)=0.009 *4*; α(L)=0.0016 *6*; α(M)=3.7×10^{-4} *15*; α(N)=1.0×10^{-4} *4*; α(O)=2.0×10^{-5} *8* α(P)=2.6×10^{-6} *11* E_γ: weighted average of 1104.0 *4* (1969Li10), 1103.7 *3* (1989Si17), 1103.64 *19* (1993Di09,1994Mo06). I_γ: weighted average of 0.21 *11* (1989Si17), 0.21 *3* (1994Mo06) and 0.24 *7* (2000Sa32).
1104.68 *19*	0.168 *9*	2482.460	(1$^-$,2$^+$)	1377.681	2$^+$			E_γ: weighted average of 1104.0 *4* (1969Li10), 1104.8 *3* (1989Si17) and 1104.79 *19* (1993Di09,1994Mo06). I_γ: weighted average of 0.17 *1* (1989Si17), 0.16 *3* (1994Mo06) and 0.16 *3* (2000Sa32).

From ENSDF

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ[@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α	Comments
1108.8[‡]	0.015 5	2769.91	$(1,2^+)$	1661.282	2^+				E_γ: from 1989Si17, not assigned to ^{214}Po in 1993Di09. I_γ: from 2000Sa32.
1118.9[‡] 5	0.085 21	2662.33	(2^+)	1543.370	2^+				E_γ,I_γ: from 1989Si17.

1120.294 6	32.79 10	1729.613	2^+	609.318	2^+	M1+E2	0.37 20	0.0144 12	α(K)=0.0118 10; α(L)=0.00199 16; α(M)=0.00047 4;
									  α(N)=0.000120 9; α(O)=2.52×10^{-5} 20
									α(P)=3.26×10^{-6} 27
									E_γ: weighted average of 1120.4 2 (1969Li10), 1120.276 22
									  (1989Si17), 1120.287 10 (1993Di09,1994Mo06) and 1120.301 8
									  (2002MoZP). Other: 1120.8 5 (1967Ma51), 1120 3 (1967Bu17)
									  and 1120 2 (1969La03).
									Mult.,δ: from α(K)exp=0.00118 5; K/L=6.0 4 (1960Lu07);
									  K/L=5.6 2 (1957Ni11); others: α(K)exp=0.0154 (1967Ma51);
									  $\gamma\gamma$(E2)(θ): A$_2$=0.109 6, A$_4$=0.011 11 (1986Ta16).
									I_γ: weighted average of 32.6 6 (1989Si17), 33.13 22 (1994Mo06),
									  33.1 6 (1998Mo14), 32.3 10 (2000Sa32), 32.77 12 (2002MoZP)
									  and 32.74 10 (2004Mo07).

1130.38 20	0.081 9	2508.12	(0^+)	1377.681	2^+				E_γ: weighted average of 1130.8 4 (1989Si17) and 1130.29 19
									  (1993Di09,1994Mo06).
									I_γ: weighted average of 0.10 2 (1989Si17), 0.078 9 (1994Mo06)
									  and 0.080 11 (2000Sa32).

1133.66 3	0.56 2	1742.99	$0^{(+)}$	609.318	2^+	(E2)		0.00578 8	α(K)=0.00462 6; α(L)=0.000888 12; α(M)=0.0002120 30;
									  α(N)=5.45×10^{-5} 8
									α(O)=1.123×10^{-5} 16; α(P)=1.385×10^{-6} 19
									E_γ: weighted average of 1133.8 3 (1969Li10), 1133.66 3
									  (1989Si17) and 1133.73 15 (1993Di09,1994Mo06).
									I_γ: weighted average of 0.55 2 (1989Si17), 0.56 3 (1994Mo06)
									  and 0.57 3 (2000Sa32).
									Mult.: $\gamma\gamma$(E2)(θ): A$_2$=0.54 10, A$_4$=1.1 2 (1989Si17).

1155.210 8	3.595 17	1764.520	1^+	609.318	2^+	M1+E2	+0.48 18	0.0127 10	α(K)=0.0104 9; α(L)=0.00177 13; α(M)=0.000415 31;
									  α(N)=0.000107 8; α(O)=2.23×10^{-5} 17
									α(P)=2.89×10^{-6} 23
									E_γ: weighted average of 1155.3 2 (1969Li10), 1155.19 2
									  (1989Si17), 1155.22 13 (1993Di09,1994Mo06) and 1155.214 9
									  (2002MoZP). Other: 1155.5 7 (1967Ma51), 1150 4 (1967Bu17)
									  and 1155 2 (1969La03).
									Mult.,δ: from α(K)exp=0.0104 12 (1960Lu07); others:
									  α(K)exp=0.0091 (1967Ma51); $\gamma\gamma$(E2)(θ): A$_2$=−0.54 3,
									  A$_4$=−0.02 6 (1986Ta16).
									I_γ: weighted average of 3.67 11 (1989Si17), 3.5 4 (1994Mo06),
									  3.61 10 (1998Mo14), 3.4 7 (2000Sa32), 3.595 17 (2002MoZP)
									  and 3.59 3 (2004Mo07).

1155.6[‡] 5	0.034 9	2698.60	$(1,2)^+$	1543.370	2^+				E_γ,I_γ: from 1989Si17.

$^{214}\text{Bi}\,\beta^-$ **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ @	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
1156‡ *1*	0.015 *6*	3003.4		1847.446	2$^+$			E_γ,I_γ: from 1989Si17.
1167.26 *18*	0.027 *4*	2544.92		1377.681	2$^+$			E_γ: weighted average of 1166.9 *10* (1989Si17) and 1167.27 *18* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.026 *9* (1989Si17), 0.027 *4* (1994Mo06) and 0.028 *10* (2000Sa32).
1173.01 *10*	0.120 *11*	2447.701	1$^-$	1274.765	3$^-$	[E2]	0.00542 *8*	α(K)=0.00434 *6*; α(L)=0.000824 *12*; α(M)=0.0001965 *28*; α(N)=5.05×10^{-5} *7*
								α(O)=1.041×10^{-5} *15*; α(P)=1.289×10^{-6} *18*
								E_γ: weighted average of 1172.9 *6* (1969Li10), 1173.05 *10* (1989Si17) and 1172.90 *17* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.13 *3* (1989Si17), 0.098 *12* (1994Mo06) and 0.132 *9* (2000Sa32).
1206.4† *8*		3053.88	(1,2$^+$)	1847.446	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
1207.68 *3*	1.00 *4*	2482.460	(1$^-$,2$^+$)	1274.765	3$^-$			E_γ: weighted average of 1207.8 *3* (1969Li10), 1207.68 *3* (1989Si17) and 1207.72 *12* (1993Di09,1994Mo06). Other: 1207.8 *8* (1967Ma51) and 1208 *2* (1967Bu17).
								I_γ: weighted average of 1.00 *4* (1989Si17), 0.98 *6* (1994Mo06) and 1.04 *7* (2000Sa32).
1226.7† *3*	0.28 *11*	2604.68	(2$^+$)	1377.681	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
								I_γ: from 1994Mo06.
1226.8‡ *6*	0.066 *19*	2769.91	(1,2$^+$)	1543.370	2$^+$			E_γ: from 1989Si17.
								I_γ: weighted average of 0.058 *19* (1989Si17) and 0.074 *20* (2000Sa32).
1230.6 *4*	0.018 *8*	2505.34	(1$^-$,2$^+$)	1274.765	3$^-$			E_γ: weighted average of 1230.5 *10* (1989Si17) and 1230.65 *38* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.047 *24* (1989Si17), 0.015 *6* (1994Mo06) and 0.08 *4* (2000Sa32).
1238.122 *10*	12.83 *4*	1847.446	2$^+$	609.318	2$^+$	M1	0.01201 *17*	α(K)=0.00984 *14*; α(L)=0.001653 *23*; α(M)=0.000388 *5*; α(N)=9.97×10^{-5} *14*
								α(O)=2.090×10^{-5} *29*; α(P)=2.71×10^{-6} *4*
								E_γ: weighted average of 1238.2 *2* (1969Li10), 1238.11 *3* (1989Si17), 1238.110 *12* (1993Di09,1994Mo06) and 1238.131 *10* (2002MoZP). Other: 1240 *4* (1967Bu17) and 1238 *2* (1969La03).
								Mult.: α(K)exp=0.0113 *11*, K/L=6.1 +*1.2*−*0.9* (1960Lu07); K/L=5.7 *3* (1957Ni11); others: α(K)εxp=0.0089 (1967Ma51); $\gamma\gamma$(E2)(θ): A$_2$=0.272 *9*, A$_4$=0.00 *2* (1986Ta16).
								I_γ: weighted average of 12.84 *13* (1989Si17), 12.87 *9* (1994Mo06), 12.97 *25* (1998Mo14), 12.7 *4* (2000Sa32), 12.83 *6* (2002De03), 12.80 *4* (2002MoZP) and 12.85 *5* (2004Mo07).
1253.14† *12*		2630.84	(1,2$^+$)	1377.681	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
1279.0‡ *7*	0.029 *5*	2940.67	(1$^-$,2$^+$)	1661.282	2$^+$			E_γ: from 1989Si17.
								I_γ: weighted average of 0.026 *6* (1989Si17) and 0.037 *10* (2000Sa32).
1280.976 *12*	3.158 *16*	1890.306	(2)$^+$	609.318	2$^+$	M1	0.01102 *15*	α(K)=0.00901 *13*; α(L)=0.001513 *21*; α(M)=0.000355 *5*; α(N)=9.13×10^{-5}

$^{214}\text{Bi}\,\beta^-$ **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ[@]	E_i(level)	J^π_i	E_f	J^π_f	Mult.	α	Comments
								13 $\alpha(\text{O})=1.913\times10^{-5}$ *27*; $\alpha(\text{P})=2.483\times10^{-6}$ *35* E_γ: weighted average of 1281.1 *2* (1969Li10), 1280.96 *2* (1989Si17), 1281.05 *14* (1993Di09,1994Mo06) and 1280.981 *12* (2002MoZP). Other: 1280 *5* (1967Bu17) and 1281 *2* (1969La03). Mult.: from $\alpha(\text{K})$exp=0.0094 *9* (1960Lu07); others: $\alpha(\text{K})$exp=0.0082 (1967Ma51); $\gamma\gamma$(E2)(θ): A$_2$=0.30 *8*, A$_4$=0.08 *12* (1986Ta16). I_γ: weighted average of 3.20 *11* (1989Si17), 3.17 *17* (1994Mo06), 3.19 *11* (1998Mo14), 3.15 *11* (2000Sa32), 3.159 *16* (2002MoZP) and 3.15 *3* (2004Mo07).
1284[‡] *1*	0.026 *2*	2662.33	(2$^+$)	1377.681	2$^+$			E_γ: from 1989Si17. I_γ: weighted average of 0.026 *2* (1989Si17) and 0.020 *7* (2000Sa32).
1285.1[‡] *5*	0.035 *9*	3014.11	(1,2$^+$)	1729.613	2$^+$			E_γ: from 1989Si17, not assigned to ^{214}Po in 1993Di09. I_γ: weighted average of 0.036 *9* (1989Si17) and 0.033 *9* (2000Sa32).
1303.75 *8*	0.23 *2*	2719.26	1$^+$	1415.498	0$^+$	M1	0.01054 *15*	$\alpha(\text{K})$=0.00861 *12*; $\alpha(\text{L})$=0.001446 *20*; $\alpha(\text{M})$=0.000339 *5*; $\alpha(\text{N})$=8.72×10^{-5} *12* $\alpha(\text{O})$=1.827×10^{-5} *26*; $\alpha(\text{P})$=2.372×10^{-6} *33* E_γ: weighted average of 1303.8 *4* (1969Li10) and 1303.76 *8* (1989Si17) and 1303.73 *14* (1993Di09,1994Mo06). I_γ: weighted average of 0.26 *2* (1989Si17), 0.21 *2* (1994Mo06) and 0.20 *5* (2000Sa32). Mult.: from $\alpha(\text{K})$exp=0.015 (1967Ma51).
1316.99 *15*	0.18 *2*	2694.62	(1$^-$,2$^+$)	1377.681	2$^+$			E_γ: weighted average of 1317.1 *3* (1969Li10), 1316.96 *15* (1989Si17) and 1316.99 *15* (1993Di09,1994Mo06). I_γ: weighted average of 0.19 *2* (1989Si17), 0.16 *2* (1994Mo06) and 0.20 *3* (2000Sa32).
1317.7[†] *4*		2860.93	(1,2$^+$)	1543.370	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
(1321.5[‡])	0.010 *5*	2698.60	(1,2)$^+$	1377.681	2$^+$			E_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09. I_γ: from 2000Sa32.
1329.94 *17*	0.026 *3*	2604.68	(2$^+$)	1274.765	3$^-$			E_γ: weighted average of 1330.0 *6* (1989Si17) and 1329.93 *17* (1993Di09,1994Mo06). I_γ: weighted average of 0.024 *13* (1989Si17), 0.026 *3* (1994Mo06) and 0.039 *17* (2000Sa32).
1341.49 *16*	0.047 *6*	2719.26	1$^+$	1377.681	2$^+$	[M1+E2]	0.0070 *28*	$\alpha(\text{K})$=0.0057 *23*; $\alpha(\text{L})$=1.0×10^{-3} *4*; $\alpha(\text{M})$=2.3×10^{-4} *8*; $\alpha(\text{N})$=5.9×10^{-5} *22*; $\alpha(\text{O})$=1.2×10^{-5} *5* $\alpha(\text{P})$=1.6×10^{-6} *6* E_γ: weighted average of 1341.5 *3* (1989Si17) and 1341.49 *16* (1993Di09,1994Mo06). I_γ: weighted average of 0.049 *26* (1989Si17), 0.046 *6* (1994Mo06) and 0.059 *29* (2000Sa32).
1351[‡&] *1*	0.015 *4*	2728.617	(0$^+$,1,2)	1377.681	2$^+$			E_γ: from 1989Si17. I_γ: weighted average of 0.021 *11* (1989Si17) and 0.014 *4* (2000Sa32).

$\gamma(^{214}\text{Po})$ (continued)

E_γ	$I_\gamma{}^{@}$	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α	Comments
1353.0‡ 8	0.0098 25	3014.11	$(1,2^+)$	1661.282	2^+				E_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09. I_γ: from 1989Si17.
1361.2† 8		3022.3	$(2^-,3,4^+)$	1661.282	2^+				E_γ: from 1993Di09 and 1994Mo06.
1370.5	0.022 5	2785.97	$(1,2^+)$	1415.498	0^+				E_γ: from 1989Si17. I_γ: from 2000Sa32; other: <0.021 (1989Si17).
1377.669 12	8.77 3	1377.681	2^+	0.0	0^+	E2		0.00404 6	α(K)=0.00324 5; α(L)=0.000585 8; α(M)=0.0001385 19; α(N)=3.56×10^{-5} 5; α(O)=7.37×10^{-6} 10 α(P)=9.24×10^{-7} 13 E_γ: weighted average of 1377.7 2 (1969Li10), 1377.65 3 (1989Si17), 1377.669 12 (1993Di09,1994Mo06) and 1377.671 12 (2002MoZP). Other: 1380 4 (1967Bu17) and 1378 2 (1969La03). Mult.: from α(K)exp=0.0026 6 (1960Lu07); other: 0.0027 (1967Ma51). I_γ: weighted average of 8.72 19 (1989Si17), 8.82 12 (1994Mo06), 8.91 18 (1998Mo14), 8.52 25 (2000Sa32), 8.79 3 (2002MoZP) and 8.72 4 (2004Mo07).
1385.310 14	1.762 16	1994.639	1^-	609.318	2^+	D			E_γ: weighted average of 1385.4 3 (1969Li10), 1385.31 3 (1989Si17), 1385.30 11 (1993Di09,1994Mo06) and 1385.310 14 (2002MoZP). Other: 1380 4 (1967Bu17) and 1385 2 (1969La03). I_γ: weighted average of 1.68 6 (1989Si17), 1.81 3 (1994Mo06), 1.76 5 (2000Sa32) and 1.755 16 (2002MoZP). Mult.: from $\gamma\gamma$(E2)(θ): A$_2$=0.19 10, A$_4$=−0.21 19 (1986Ta16).
1387.5† 2		2662.33	(2^+)	1274.765	3^-				E_γ: from 1993Di09 and 1994Mo06.
1392.5$^{\ddagger\&}$ 4	0.037 15	2769.91	$(1,2^+)$	1377.681	2^+				E_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09. I_γ: weighted average of 0.041 19 (1989Si17) and 0.035 15 (2000Sa32).
1401.515 13	2.933 13	2010.831	(2^+)	609.318	2^+	(M1+E2)	+1.6 5	0.0053 8	α(K)=0.0043 7; α(L)=0.00074 11; α(M)=0.000175 25; α(N)=4.5×10^{-5} 7; α(O)=9.4×10^{-6} 14 α(P)=1.19×10^{-6} 19 E_γ: weighted average of 1401.6 3 (1969Li10), 1401.50 4 (1989Si17), 1401.52 11 (1993Di09,1994Mo06) and 1401.516 13 (2002MoZP). Other: 1402 2 (1969La03). Mult.,δ: from $\gamma\gamma$(E2)(θ): A$_2$=−0.37 2, A$_4$=0.25 4 (1986Ta16). I_γ: weighted average of 3.01 9 (1989Si17), 2.91 16 (1994Mo06), 2.96 9 (1998Mo14), 3.0 4 (2000Sa32), 2.934 13 (2002MoZP) and 2.927 20 (2004Mo07).
1407.988 12	5.256 19	2017.315	0^+	609.318	2^+	(E2)		0.00389 5	α(K)=0.00312 4; α(L)=0.000559 8; α(M)=0.0001323 19; α(N)=3.40×10^{-5} 5; α(O)=7.04×10^{-6} 10 α(P)=8.84×10^{-7} 12

$\gamma(^{214}$Po) (continued)

E_γ	I_γ @	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α	$I_{(\gamma+ce)}$ @	Comments
										E_γ: weighted average of 1408.0 2 (1969Li10), 1407.98 4 (1989Si17), 1407.99 11 (1993Di09,1994Mo06) and 1407.989 12 (2002MoZP). Other: 1407 4 (1967Bu17) and 1408 2 (1969La03). Mult.: from $\gamma\gamma$(E2)(θ) (1986Ta16). I_γ: weighted average of 5.37 9 (1989Si17), 5.37 6 (1994Mo06), 5.38 12 (1998Mo14), 5.5 5 (2000Sa32), 5.23 3 (2002De03), 5.250 19 (2002MoZP) and 5.24 4 (2004Mo07).
1415.495 10		1415.498	0^+	0.0	0^+	E0			1.12 3	E_γ: from level-energy difference. ce measurement: 1415.9 (1954Ml77, 1960Lu07). $I_{(\gamma+ce)}$: weighted average of 1.14 4 from I(ce(K) 1415)/I(ce(K) 609γ)=25.0/45.0 15=0.651 19 (1960Lu07) with α(K)/α(tot)(1415)=0.8536 and α(K)(609γ)=0.01489 21; and 1.08 5 from I(ce(L) 1415)/I(ce(K) 609γ)=4.76 20/45.0 15=0.106 4 (1960Lu07) with α(L)/α(tot)(1415)=0.1465 and α(K)(609γ)=0.01489 21. Mult.: from ce measurement 1960Lu07.
1419.70 29	0.011 2	2694.62	$(1^-,2^+)$	1274.765	3^-					E_γ: weighted average of 1419.7 6 (1989Si17) and 1419.70 29 (1993Di09,1994Mo06). I_γ: weighted average of 0.011 2 (1989Si17), 0.011 3 (1994Mo06) and 0.013 3 (2000Sa32).
(1448.85‡ 24)	0.04 2	2826.82	$(1,2^+)$	1377.681	2^+					E_γ: from 1989Si17, not assigned to ^{214}Po in 1993Di09. I_γ: from 2000Sa32; other: <0.021 (1989Si17).
1471.1‡ 6	0.0035 15	3014.11	$(1,2^+)$	1543.370	2^+					E_γ: from 1989Si17, not assigned to ^{214}Po in 1993Di09. I_γ: from 2000Sa32.
1479.19 12	0.122 17	2088.44	$(1,2^+)$	609.318	2^+					E_γ: weighted average of 1479.2 7 (1969Li10), 1479.22 12 (1989Si17) and 1479.15 14 (1993Di09,1994Mo06). Other: 1480 2 (1969La03). I_γ: weighted average of 0.149 17 (1989Si17), 0.11 1 (1994Mo06) and 0.14 3 (2000Sa32).
(1481.3‡)	0.0020 7	3142.6	$(1,2^+)$	1661.282	2^+					E_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09. I_γ: from 2000Sa32; other: <0.011 (1989Si17).
(1483.5‡)	0.028 10	2860.93	$(1,2^+)$	1377.681	2^+					E_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09. I_γ: from 2000Sa32; other: <0.021 (1989Si17).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

γ(^{214}Po) (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α	Comments
1509.211 *10*	4.68 *3*	2118.535	1^+	609.318	2^+	(M1+E2)	−0.056 *22*	0.00733 *10*	α(K)=0.00591 *8*; α(L)=0.000989 *14*; α(M)=0.0002317 *33*; α(N)=5.96×10^{-5} *8* α(O)=1.249×10^{-5} *18*; α(P)=1.623×10^{-6} *23* E_γ: weighted average of 1509.3 *3* (1969Li10), 1509.19 *4* (1989Si17), 1509.228 *15* (1993Di09,1994Mo06) and 1509.198 *14* (2002MoZP). Other: 1510 *4* (1967Bu17) and 1510 *2* (1969La03). Mult.,δ: from $\gamma\gamma$(E2)(θ): A$_2$=−0.19 *2*, A$_4$=0.01 *4* (1986Ta16). I_γ: weighted average of 4.75 *13* (1989Si17), 4.76 *5* (1994Mo06), 4.75 *15* (1998Mo14), 4.63 *15* (2000Sa32), 4.61 *6* (2002De03), 4.67 *3* (2002MoZP) and 4.63 *6* (2004Mo07).
(1515.7[‡])	0.039 *10*	2893.60	(1,2$^+$)	1377.681	2^+				E_γ: from 1989Si17, not assigned to ^{214}Po in 1993Di09. I_γ: from 2000Sa32; other: <0.021 (1989Si17).
1532.8 *8*		3262.4		1729.613	2^+				E_γ: from 1993Di09.
1538.53 *6*	0.96 *5*	2147.86	(1$^-$,2$^+$)	609.318	2^+	D(+Q)			E_γ: weighted average of 1538.7 *3* (1969Li10), 1538.50 *6* (1989Si17) and 1538.66 *14* (1993Di09,1994Mo06). Mult.: from $\gamma\gamma$(E2)(θ): A$_2$=−0.21 *5*, A$_4$=0.01 *6* (1989Si17). I_γ: weighted average of 0.90 *13* (1989Si17), 0.95 *6* (1994Mo06) and 0.98 *5* (2000Sa32).
1543.33 *6*	0.68 *3*	1543.370	2^+	0.0	0^+	[E2]		0.00333 *5*	α(K)=0.00265 *4*; α(L)=0.000463 *6*; α(M)=0.0001093 *15*; α(N)=2.81×10^{-5} *4*; α(O)=5.83×10^{-6} *8* α(P)=7.36×10^{-7} *10* E_γ: weighted average of 1543.3 *4* (1969Li10), 1543.32 *6* (1989Si17) and 1543.38 *13* (1993Di09,1994Mo06). Other: 1541 *15* (1966Hu03), 1540 *4* (1967Bu17) and 1544 *2* (1969La03). I_γ: weighted average of 0.77 *11* (1989Si17), 0.68 *4* (1994Mo06) and 0.67 *3* (2000Sa32).
1583.203 *17*	1.557 *13*	2192.536	(2)$^+$	609.318	2^+	M1		0.00655 *9*	α(K)=0.00524 *7*; α(L)=0.000875 *12*; α(M)=0.0002051 *29*; α(N)=5.28×10^{-5} *7* α(O)=1.106×10^{-5} *15*; α(P)=1.437×10^{-6} *20* E_γ: weighted average of 1583.3 *3* (1969Li10), 1583.22 *4* (1989Si17), 1583.21 *12* (1993Di09,1994Mo06) and 1583.200 *17* (2002MoZP). Other: 1585 *4* (1967Bu17) and 1584 *2* (1969La03). Mult.: from α(K)exp=0.0062 *9* (1960Lu07); others: α(K)exp=0.0091 (1967Ma51); $\gamma\gamma$(E2)(θ): A$_2$=0.38 *3*, A$_4$=0.10 *6* (1986Ta16). I_γ: weighted average of 1.56 *6* (1989Si17), 1.58 *8* (1994Mo06), 1.64 *17* (2000Sa32) and 1.556 *13* (2002MoZP).

^{214}Bi β^- **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po$)$ (continued)

E_γ	I_γ[@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
1594.75 8	0.60 4	2204.103	1^+	609.318	2^+	[M1+E2]	0.0048 16	α(K)=0.0038 13; α(L)=6.5×10^{-4} 21; α(M)=1.5×10^{-4} 5; α(N)=3.9×10^{-5} 13; α(O)=8.2×10^{-6} 27 α(P)=1.0×10^{-6} 4 E_γ: weighted average of 1594.8 4 (1969Li10), 1594.73 8 (1989Si17) and 1594.80 12 (1993Di09,1994Mo06). Other: 1595 2 (1969La03). I_γ: weighted average of 0.58 4 (1989Si17), 0.61 4 (1994Mo06) and 0.63 10 (2000Sa32).
1594.8 3	0.011 6	2869.63	$(2^-,3^-)$	1274.765	3^-			E_γ: weighted average of 1595 1 (1989Si17) and 1594.79 30 (1993Di09,1994Mo06). I_γ: from 1989Si17.
1598.0[‡] 5	0.013 6	3014.11	$(1,2^+)$	1415.498	0^+			E_γ,I_γ: from 1989Si17.
1599.56 12	0.72 4	2208.69	$(2^-,3)$	609.318	2^+	D+Q		E_γ: weighted average of 1599.5 4 (1969Li10), 1599.3 6 (1989Si17) and 1599.58 12 (1993Di09,1994Mo06). Mult.: from $\gamma\gamma$(E2)(θ): A$_2$=0.27 6, A$_4$=−0.12 6 (1989Si17). I_γ: weighted average of 0.72 4 (1989Si17), 0.72 4 (1994Mo06) and 0.73 7 (2000Sa32).
1636.36 19	0.025 4	3014.11	$(1,2^+)$	1377.681	2^+			E_γ: weighted average of 1636.6 4 (1989Si17) and 1636.25 19 (1993Di09,1994Mo06). I_γ: weighted average of 0.041 13 (1989Si17), 0.024 3 (1994Mo06) and 0.06 3 (2000Sa32).
1637[‡] 1	0.015 6	3053.88	$(1,2^+)$	1415.498	0^+			E_γ: from 1989Si17. I_γ: weighted average of 0.013 6 (1989Si17) and 0.020 10 (2000Sa32).
1644.0[†] 8		3022.3	$(2^-,3,4^+)$	1377.681	2^+			E_γ: from 1993Di09 and 1994Mo06.
1657.04 18	0.11 1	2266.41	2^+	609.318	2^+	[M1+E2]	0.0044 15	α(K)=0.0035 12; α(L)=5.9×10^{-4} 19; α(M)=1.4×10^{-4} 4; α(N)=3.6×10^{-5} 11; α(O)=7.4×10^{-6} 24 α(P)=9.6×10^{-7} 32 E_γ: weighted average of 1657.4 6 (1989Si17) and 1657.00 19 (1993Di09,1994Mo06). I_γ: weighted average of 0.16 7 (1989Si17), 0.10 1 (1994Mo06) and 0.14 3 (2000Sa32).
1661.274 17	2.301 14	1661.282	2^+	0.0	0^+	E2	0.00296 4	α(K)=0.002319 32; α(L)=0.000399 6; α(M)=9.40×10^{-5} 13; α(N)=2.414×10^{-5} 34 α(O)=5.02×10^{-6} 7; α(P)=6.36×10^{-7} 9 E_γ: weighted average of 1661.4 2 (1969Li10), 1661.28 6 (1989Si17), 1661.29 11 (1993Di09,1994Mo06) and 1661.272 17 (2002MoZP). Other: 1662 4 (1967Bu17) and 1661 2 (1969La03). I_γ: weighted average of 2.49 9 (1989Si17), 2.33 12 (1994Mo06), 2.38 10 (1998Mo14), 2.37 22 (2000Sa32), 2.299 14 (2002MoZP) and 2.28 3 (2004Mo07). Mult.: from α(K)exp=0.0026 (1967Ma51).
1665.86 19	0.019 6	2940.67	$(1^-,2^+)$	1274.765	3^-			E_γ: weighted average of 1667.0 15 (1989Si17) and 1665.84 19 (1993Di09,1994Mo06).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								I_γ: weighted average of 0.013 6 (1989Si17), 0.018 3 (1994Mo06) and 0.046 9 (2000Sa32).
1676.1[‡]	<0.005	3053.88	(1,2$^+$)	1377.681	2$^+$			E_γ,I_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09.
1684.012 23	0.48 3	2293.362	(1$^+$,2$^+$)	609.318	2$^+$	(M1+E2)	0.0043 14	α(K)=0.0034 11; α(L)=5.7×10^{-4} 18; α(M)=1.3×10^{-4} 4; α(N)=3.4×10^{-5} 11; α(O)=7.2×10^{-6} 23
								α(P)=9.2×10^{-7} 30
								E_γ: weighted average of 1684.1 3 (1969Li10), 1683.99 4 (1989Si17), 1683.96 14 (1993Di09,1994Mo06) and 1684.020 23 (2002MoZP). Other: 1685 6 (1967Bu17) and 1685 2 (1969La03).
								I_γ: weighted average of 0.51 4 (1989Si17), 0.49 3 (1994Mo06) and 0.43 4 (2000Sa32); other: 1.556 13 (2002MoZP).
								Mult.: from $\gamma\gamma$(E2)(θ): A$_2$=−0.05 6, A$_4$=−0.03 7 (1989Si17).
1693.4[†] 8		2967.6		1274.765	3$^-$			E_γ: from 1993Di09 and 1994Mo06.
1711.0[&] 8	0.004 2	2986.22	(2$^-$,3)	1274.765	3$^-$			E_γ: from 1993Di09 and 1994Mo06.
								I_γ: from 1993Di09 and 1994Mo06; others: <0.021 (1989Si17) and 0.05 1 (2000Sa32).
1717.0 8	0.012 3	3093.48	(1$^-$,2$^+$)	1377.681	2$^+$			E_γ: from 1993Di09 and 1994Mo06. Other: 1715.9 (1989Si17).
								I_γ: from 2000Sa32; other: <0.005 (1989Si17).
1723.7[†] 8		3000.00	(1$^-$,2$^+$)	1274.765	3$^-$			E_γ: from 1993Di09 and 1994Mo06.
1729.595 15	6.32 7	1729.613	2$^+$	0.0	0$^+$	E2	0.00278 4	α(K)=0.002157 30; α(L)=0.000368 5; α(M)=8.66×10^{-5} 12; α(N)=2.225×10^{-5} 31
								α(O)=4.63×10^{-6} 6; α(P)=5.88×10^{-7} 8
								E_γ: weighted average of 1729.8 2 (1969Li10), 1729.60 5 (1989Si17), 1729.595 15 (1993Di09,1994Mo06) and 1729.592 19 (2002MoZP). Other: 1730 4 (1967Bu17) and 1730 2 (1969La03).
								Mult.: from α(K)exp=0.0028 4 (1960Lu07) and 0.002 (1967Ma51).
								I_γ: weighted average of 6.61 13 (1989Si17), 6.60 4 (1994Mo06), 6.27 15 (1998Mo14), 6.33 15 (2000Sa32), 6.25 3 (2002MoZP) and 6.22 3 (2004Mo07).
1739.1[†] 8		2348.3	(1,2$^+$)	609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
1747.2[†] 8		3022.3	(2$^-$,3,4$^+$)	1274.765	3$^-$			E_γ: from 1993Di09 and 1994Mo06.
1751.6 7	0.010 8	2360.97	(1,2$^+$)	609.318	2$^+$			E_γ: weighted average of 1752 1 (1989Si17) and 1751.44 74 (1993Di09,1994Mo06).
								I_γ: unweighted average of 0.017 9 (1989Si17) and 0.002 1 (1993Di09,1994Mo06).
1764.491 14	33.64 11	1764.520	1$^+$	0.0	0$^+$	M1	0.00512 7	α(K)=0.00397 6; α(L)=0.000661 9; α(M)=0.0001549 22; α(N)=3.98×10^{-5} 6; α(O)=8.35×10^{-6} 12
								α(P)=1.086×10^{-6} 15
								E_γ: weighted average of 1764.6 2 (1969Li10), 1764.51 5 (1989Si17), 1764.494 14 (1993Di09,1994Mo06) and 1764.485 14 (2002MoZP). Other: 1764 2 (1967Bu17) and 1764 2 (1969La03).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E$_\gamma$	I$_\gamma$[@]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.	α	Comments
								Mult.: from α(K)exp=0.0040 3 (1960Lu07); other: 0.0036 (1967Ma51).
								I$_\gamma$: weighted average of 34.5 6 (1989Si17), 34.48 25 (1994Mo06), 33.9 7 (1998Mo14), 33.3 10 (2000Sa32), 33.63 9 (2002MoZP) and 33.5 1 (2004Mo07).
[x]1782.1 *10*								I$_\gamma$: 0.035 12 from 1969Li10 and 0.011 3 from 2000Sa32.
1813.73 *14*	0.024 *2*	2423.25	(1,2$^+$)	609.318	2$^+$			E$_\gamma$: weighted average of 1813.7 4 (1989Si17) and 1813.73 14 (1993Di09,1994Mo06).
								I$_\gamma$: weighted average of 0.026 11 (1989Si17), 0.024 2 (1994Mo06) and 0.020 10 (2000Sa32).
1819.2[†] *4*	<0.003	3093.48	(1$^-$,2$^+$)	1274.765	3$^-$			E$_\gamma$,I$_\gamma$: from 1993Di09 and 1994Mo06.
1838.36 *5*	0.77 *3*	2447.701	1$^-$	609.318	2$^+$	[E1]	1.36×10^{-3} *2*	α(K)=0.000800 11; α(L)=0.0001206 17; α(M)=2.79×10^{-5} 4; α(N)=7.15×10^{-6} 10
								α(O)=1.495×10^{-6} 21; α(P)=1.933×10^{-7} 27
								E$_\gamma$: weighted average of 1838.6 3 (1969Li10), 1838.36 5 (1989Si17) and 1838.33 11 (1993Di09,1994Mo06).
								I$_\gamma$: weighted average of 0.83 4 (1989Si17), 0.74 3 (1994Mo06) and 0.77 4 (2000Sa32).
1847.433 *17*	4.46 *3*	1847.446	2$^+$	0.0	0$^+$	[E2]	2.53×10^{-3} *4*	α(K)=0.001916 27; α(L)=0.000323 5; α(M)=7.59×10^{-5} 11; α(N)=1.948×10^{-5} 27
								α(O)=4.06×10^{-6} 6; α(P)=5.17×10^{-7} 7
								E$_\gamma$: weighted average of 1847.6 3 (1969Li10), 1847.44 5 (1989Si17), 1847.40 11 (1993Di09,1994Mo06) and 1847.432 17 (2002MoZP). Other: 1850 4 (1967Bu17) and 1848 2 (1969La03).
								I$_\gamma$: weighted average of 4.61 15 (1989Si17), 4.57 6 (1994Mo06), 4.51 12 (1998Mo14), 4.35 13 (2000Sa32), 4.42 3 (2002MoZP) and 4.46 3 (2004Mo07).
1873.16 *5*	0.47 *2*	2482.460	(1$^-$,2$^+$)	609.318	2$^+$			E$_\gamma$: weighted average of 1873.4 3 (1969Li10), 1873.16 6 (1989Si17) and 1873.10 12 (1993Di09,1994Mo06). Other: 1873 2 (1967Bu17).
								I$_\gamma$: weighted average of 0.49 4 (1989Si17), 0.46 2 (1994Mo06) and 0.51 5 (2000Sa32).
1890.30 *14*	0.184 *23*	1890.306	(2)$^+$	0.0	0$^+$			E$_\gamma$: weighted average of 1890.4 4 (1969Li10), 1890.35 15 (1989Si17) and 1890.25 14 (1993Di09,1994Mo06). Other: 1890 2 (1969La03).
								I$_\gamma$: weighted average of 0.194 23 (1989Si17), 0.17 6 (1994Mo06) and 0.17 3 (2000Sa32).
1896.05 *14*	0.33 *2*	2505.34	(1$^-$,2$^+$)	609.318	2$^+$			E$_\gamma$: weighted average of 1896.7 4 (1969Li10), 1896.3 3 (1989Si17) and 1895.92 14 (1993Di09,1994Mo06). Other: 1896 2 (1969La03).
								I$_\gamma$: weighted average of 0.38 4 (1989Si17), 0.31 2 (1994Mo06) and 0.35 4 (2000Sa32).
1898.68 *16*	0.11 *2*	2508.12	(0$^+$)	609.318	2$^+$			E$_\gamma$: weighted average of 1898.7 4 (1989Si17) and 1898.68 16 (1993Di09,1994Mo06).
								I$_\gamma$: weighted average of 0.14 5 (1989Si17), 0.11 2 (1994Mo06) and 0.10 3 (2000Sa32).
1935.58 *20*	0.067 *7*	2544.92		609.318	2$^+$			E$_\gamma$: weighted average of 1935.8 4 (1989Si17) and 1935.52 20

$^{214}\text{Bi }\beta^-$ decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ @	E_i(level)	J^π_i	E_f	J^π_f	Mult.	α	$I_{(\gamma+ce)}$ @	Comments
									(1993Di09,1994Mo06).
									I_γ: from 1993Di09 and 1994Mo06; others: 0.11 *5* (1989Si17) and 0.16 *4* (2000Sa32).
1943.7[†] *8*		2553.0		609.318	2$^+$				E_γ: from 1994Mo06.
1953.4[†] *6*		2562.4		609.318	2$^+$				E_γ: from 1994Mo06.
1994.6 *6*	0.015 *6*	2604.68	(2$^+$)	609.318	2$^+$				E_γ: weighted average of 1994.7 *15* (1969Li10), 1994.7 *15* (1989Si17) and 1994.6 *6* (1993Di09,1994Mo06).
									I_γ: weighted average of 0.013 *7* (1989Si17) and 0.020 *10* (2000Sa32).
[x]2004.5 *10*	0.005 *2*								E_γ: from 1969Li10.
									I_γ: from 2000Sa32; other: $\approx$0.003 from 1969Li10.
2010.80 *12*	0.097 *5*	2010.831	(2$^+$)	0.0	0$^+$				E_γ: weighted average of 2011.0 *6* (1969Li10), 2010.71 *15* (1989Si17) and 2010.85 *12* (1993Di09,1994Mo06). Other: 2011 *2* (1969La03).
									I_γ: weighted average of 0.106 *11* (1989Si17), 0.100 *5* (1994Mo06) and 0.093 *5* (2000Sa32).
2017.309 *12*		2017.315	0$^+$	0.0	0$^+$	E0		0.012 *2*	E_γ: from level-energy difference. ce measurement: 2016.7 (1954Ml77, 1960Lu07).
									$I_{(\gamma+ce)}$: from I(ce(K) 2017)/I(ce(K) 609γ)=0.31 *5*/45.0 *15*=0.0069 *11* (1960Lu07) with α(K)/α(tot)(2017)=0.8556 and α(K)(609γ)=0.01489 *21*; other: 1.0 (1954Ml77).
2021.52 *12*	0.047 *5*	2630.84	(1,2$^+$)	609.318	2$^+$				E_γ: weighted average of 2021.8 *3* (1989Si17) and 2021.47 *12* (1993Di09,1994Mo06).
									I_γ: weighted average of 0.041 *16* (1989Si17), 0.045 *5* (1994Mo06) and 0.057 *11* (2000Sa32).
2052.96 *12*	0.151 *10*	2662.33	(2$^+$)	609.318	2$^+$				E_γ: weighted average of 2053.2 *3* (1969Li10), 2052.94 *15* and 2052.94 *12* (1993Di09,1994Mo06).
									I_γ: weighted average of 0.151 *15* (1989Si17), 0.15 *1* (1994Mo06) and 0.16 *3* (2000Sa32).
2085.19 *15*	0.018 *1*	2694.62	(1$^-$,2$^+$)	609.318	2$^+$				E_γ: weighted average of 2084.2 *12* (1969Li10), 2085.0 *5* (1989Si17) and 2085.22 *15* (1993Di09,1994Mo06).
									I_γ: weighted average of 0.021 *6* (1989Si17) and 0.018 *1* (1994Mo06).
2089.65 *15*	0.100 *6*	2698.60	(1,2)$^+$	609.318	2$^+$	M1	0.00365 *5*		α(K)=0.00257 *4*; α(L)=0.000427 *6*; α(M)=9.99$\times$10^{-5} *14*; α(N)=2.57$\times$10^{-5} *4*; α(O)=5.39$\times$10^{-6} *8*
									α(P)=7.01$\times$10^{-7} *10*
									E_γ: weighted average of 2089.7 *7* (1969Li10), 2089.51 *15* (1989Si17) and 2089.79 *15* (1993Di09,1994Mo06).
									I_γ: weighted average of 0.121 *13* (1989Si17), 0.096 *5* (1994Mo06) and 0.12 *3* (2000Sa32).
									Mult.: >M2 suggested by α(K)exp=0.036 (1967Ma51). It is unlikely based on the decay pattern; however E1 or E2 ruled out .
2109.98 *12*	0.188 *10*	2719.26	1$^+$	609.318	2$^+$	[M1+E2]	0.0029 *7*		α(K)=0.0020 *5*; α(L)=3.3$\times$10^{-4} *8*; α(M)=7.8$\times$10^{-5} *20*;

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	$I_\gamma^{@}$	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								α(N)=2.0×10^{-5} 5; α(O)=4.2×10^{-6} 11
								α(P)=5.4×10^{-7} 14
								E_γ: weighted average of 2110.4 3 (1969Li10), 2109.90 12 (1989Si17) and
								2109.96 14 (1993Di09,1994Mo06).
								I_γ: weighted average of 0.189 17 (1989Si17), 0.19 1 (1994Mo06) and 0.17 3
								(2000Sa32).
2118.513 25	2.545 20	2118.535	1$^+$	0.0	0$^+$	M1	0.00356 5	α(K)=0.002483 35; α(L)=0.000412 6; α(M)=9.65×10^{-5} 14;
								α(N)=2.481×10^{-5} 35
								α(O)=5.20×10^{-6} 7; α(P)=6.77×10^{-7} 9
								E_γ: weighted average of 2118.7 3 (1969Li10), 2118.54 8 (1989Si17),
								2118.551 30 (1993Di09,1994Mo06) and 2118.483 25 (2002MoZP). Other:
								2119 (1960Lu07) and 2119 2 (1969La03).
								Mult.: from α(K)exp=0.0033 7 (1960Lu07); other: 0.0032 (1967Ma51).
								I_γ: weighted average of 2.62 6 (1989Si17), 2.56 3 (1994Mo06), 2.55 8
								(1998Mo14), 2.65 25 (2000Sa32), 2.536 20 (2002De03), 2.548 21
								(2002MoZP) and 2.537 20 (2004Mo07).
2120.0‡ 10	0.015 4	2728.617	(0$^+$,1,2)	609.318	2$^+$			E_γ: from 1989Si17. Other: 2119 2 (1969La03).
								I_γ: from 1989Si17.
2148.00 12	0.030 3	2147.86	(1$^-$,2$^+$)	0.0	0$^+$			E_γ: weighted average of 2147.7 10 (1969Li10), 2147.8 4 (1989Si17) and
								2148.02 12 (1993Di09,1994Mo06). Other: 2150 7 (1967Bu17) and 2148 2
								(1969La03).
								I_γ: weighted average of 0.034 6 (1989Si17), 0.029 2 (1994Mo06) and 0.050
								10 (2000Sa32).
2160.4† 3	0.004 1	2769.91	(1,2$^+$)	609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
								I_γ: from 1994Mo06; other: 0.026 1 (2000Sa32).
2176.52 19	0.011 4	2785.97	(1,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2176.8 6 (1989Si17) and 2176.49 19
								(1993Di09,1994Mo06).
								I_γ: unweighted average of 0.007 1 (1994Mo06) and 0.015 6 (2000Sa32);
								other: ≈0.0085 (1989Si17).
2184.8† 6		2794.1		609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
2192.58 16	0.086 9	2192.536	(2)$^+$	0.0	0$^+$			E_γ: weighted average of 2192.5 5 (1969Li10), 2192.6 2 (1989Si17) and
								2192.58 16 (1993Di09,1994Mo06). Other: 2193 2 (1969La03).
								I_γ: weighted average of 0.132 23 (1989Si17), 0.073 6 (1994Mo06) and 0.093
								5 (2000Sa32).
2193.3† 6		2802.54		609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
2204.10 4	10.82 5	2204.103	1$^+$	0.0	0$^+$	M1	0.00333 5	α(K)=0.002243 31; α(L)=0.000372 5; α(M)=8.70×10^{-5} 12;
								α(N)=2.239×10^{-5} 31
								α(O)=4.69×10^{-6} 7; α(P)=6.11×10^{-7} 9
								E_γ: weighted average of 2204.3 3 (1969Li10), 2204.12 7 (1989Si17),
								2204.215 40 (1993Di09,1994Mo06) and 2204.051 23 (2002MoZP). Other:
								2204 2 (1967Bu17) and 2204 2 (1969La03).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ[@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								Mult.: from α(K)exp=0.0029 *3* (1960Lu07); other: 0.0026 (1967Ma51).
								I_γ: weighted average of 10.83 *19* (1989Si17), 11.02 *9* (1994Mo06), 10.89 *24* (1998Mo14), 11.1 *3* (2000Sa32), 10.75 *9* (2002MoZP) and 10.76 *5* (2004Mo07).
2251.55 *15*	0.012 *1*	2860.93	(1,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2251.2 *4* (1989Si17) and 2251.60 *15* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.015 *9* (1989Si17) and 0.012 *1* (1994Mo06).
2260.32 *20*	0.019 *1*	2869.63	(2$^-$,3$^-$)	609.318	2$^+$			E_γ: weighted average of 2259.7 *4* (1989Si17) and 2260.39 *13* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.019 *9* (1989Si17), 0.019 *1* (1994Mo06) and 0.020 *3* (2000Sa32).
2266.52 *13*	0.037 *2*	2266.41	2$^+$	0.0	0$^+$	[E2]	2.00×10^{-3} *3*	α(K)=0.001327 *19*; α(L)=0.0002170 *30*; α(M)=5.07×10^{-5} *7*; α(N)=1.302×10^{-5} *18*
								α(O)=2.72×10^{-6} *4*; α(P)=3.49×10^{-7} *5*
								E_γ: weighted average of 2266.4 *6* (1969Li10), 2266.6 *3* (1989Si17) and 2266.51 *13* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.038 *6* (1989Si17), 0.037 *2* (1993Di09,1994Mo06) and 0.034 *4* (2000Sa32).
2270.9 *4*	0.0029 *5*	2880.36	(1$^-$,2$^+$)	609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
								I_γ: from 1993Di09 and 1994Mo06; other: 0.010 *5* (2000Sa32).
2284.33 *18*	0.011 *1*	2893.60	(1,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2284.4 *7* (1989Si17) and 2284.33 *18* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.011 *1* (1989Si17), 0.011 *1* (1994Mo06) and 0.011 *3* (2000Sa32).
2287.65[†] *23*	0.010 *1*	2896.98		609.318	2$^+$			E_γ,I_γ: from 1993Di09 and 1994Mo06.
2293.38 *3*	0.679 *10*	2293.362	(1$^+$,2$^+$)	0.0	0$^+$			E_γ: weighted average of 2293.7 *3* (1969Li10), 2293.36 *12* (1989Si17), 2293.45 *12* (1993Di09,1994Mo06) and 2293.37 *3* (2002MoZP). Other: 2292 *4* (1967Bu17) and 2293 *2* (1969La03).
								I_γ: weighted average of 0.70 *4* (1989Si17), 0.67 *3* (1994Mo06), 0.72 *6* (2000Sa32) and 0.677 *10* (2002MoZP).
2310.2[†] *3*	0.003 *2*	2919.5		609.318	2$^+$			E_γ,I_γ: from 1993Di09 and 1994Mo06.
2312.45 *15*	0.020 *2*	2921.89	(1,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2312.5 *10* (1969Li10), 2312.2 *4* (1989Si17) and 2312.48 *15* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.026 *6* (1989Si17), 0.019 *2* (1994Mo06) and 0.018 *5* (2000Sa32).
2319.3[&] *3*	0.0009 *3*	2928.55	(1,2$^+$)	609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
								I_γ: from 1994Mo06; other: <0.0021 (1989Si17) and 0.005 *1* (2000Sa32).
2325.18 *25*	0.0037 *4*	2934.54	(1,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2324.8 *10* (1989Si17) and 2325.20 *25* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.0043 *21* (1989Si17), 0.0037 *4* (1994Mo06); other: 0.009 *3* (2000Sa32).
2331.38 *12*	0.051 *7*	2940.67	(1$^-$,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2331.7 *4* (1969Li10), 2331.3 *3* (1989Si17) and 2331.36 *12* (1993Di09,1994Mo06).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
								I_γ: weighted average of 0.047 *6* (1989Si17), 0.048 *3* (1994Mo06) and 0.076 *7* (2000Sa32).
2348.0[†] *13*	0.0003 *2*	2348.3	(1,2$^+$)	0.0	0$^+$			E_γ,I_γ: from 1994Mo06.
2353.5[†] *7*	0.0008 *3*	2962.8		609.318	2$^+$			E_γ,I_γ: from 1993Di09 and 1994Mo06.
2358.0[†] *6*		2967.6		609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
2360.99 *19*	0.0036 *5*	2360.97	(1,2$^+$)	0.0	0$^+$			E_γ: weighted average of 2360.9 *6* (1989Si17) and 2361.00 *19* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.0041 *13* (1989Si17), 0.0033 *3* (1994Mo06) and 0.0060 *10* (2000Sa32).
2369.56 *17*	0.006 *1*	2978.93	(1,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2369.3 *6* (1989Si17) and 2369.58 *17* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.006 *1* (1994Mo06) and 0.008 *3* (2000Sa32); other: 0.0064 (1989Si17).
2376.89 *13*	0.020 *2*	2986.22	(2$^-$,3)	609.318	2$^+$			E_γ: weighted average of 2377.2 *5* (1969Li10), 2377.0 *2* (1989Si17) and 2376.83 *13* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.025 *4* (1989Si17), 0.019 *1* (1994Mo06) and 0.034 *7* (2000Sa32).
2390.82 *21*	0.0035 *3*	3000.00	(1$^-$,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2390.9 *6* (1989Si17) and 2390.81 *21* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.0043 *13* (1989Si17), 0.0034 *3* (1994Mo06) and 0.006 *3* (2000Sa32).
2396.5[†] *6*		3005.8		609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
2405.1 *5*	0.0009 *3*	3014.11	(1,2$^+$)	609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
								I_γ: from 1993Di09 and 1994Mo06; others: $\approx$0.0021 (1989Si17) and 0.0040 *10* (2000Sa32).
2413.1[†] *4*		3022.3	(2$^-$,3,4$^+$)	609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
2421.0[†] *6*		3030.3		609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
2423.32 *13*	0.011 *1*	2423.25	(1,2$^+$)	0.0	0$^+$			E_γ: weighted average of 2423.7 *6* (1969Li10), 2423.5 *3* (1989Si17) and 2423.27 *13* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.013 *2* (1989Si17), 0.010 *1* (1994Mo06) and 0.018 *4* (2000Sa32).
2430.0[†] *6*		3039.3		609.318	2$^+$			E_γ: from 1993Di09 and 1994Mo06.
2444.7 *7*	0.017 *5*	3053.88	(1,2$^+$)	609.318	2$^+$			E_γ: weighted average of 2444.6 *7* (1989Si17) and 2444.9 *8* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.017 *9* (1989Si17) and 0.017 *5* (2000Sa32).
2447.69 *3*	3.40 *2*	2447.701	1$^-$	0.0	0$^+$	E1	1.42$\times$10^{-3} *2*	α(K)=0.000503 *7*; α(L)=7.52$\times$10^{-5} *11*; α(M)=1.735$\times$10^{-5} *24*; α(N)=4.45$\times$10^{-6} *6*; α(O)=9.31$\times$10^{-7} *13* α(P)=1.210$\times$10^{-7} *17* E_γ: weighted average of 2448.0 *3* (1969Li10), 2447.71 *10* (1989Si17), 2447.860 *100* (1993Di09,1994Mo06) and 2447.67 *3* (2002MoZP). Other: 2448 *2* (1969La03).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po$)$ (continued)

E_γ	I_γ [@]	E_i(level)	J^π_i	E_f	J^π_f	Mult.	δ	Comments
								I_γ: weighted average of 3.37 *4* (1989Si17), 3.42 *3* (1994Mo06), 3.46 *9* (1998Mo14), 3.30 *10* (2000Sa32), 3.41 *4* (2002MoZP) and 3.40 *2* (2004Mo07).
								Mult.: from α(K)exp$\approx$0.0004 (1960Lu07) and α(K)exp$\approx$0.0003 (1967Ma51).
2459.0[†] *8*		3068.3		609.318	2^+			E_γ: from 1993Di09 and 1994Mo06.
2469.4[†] *6*		3078.7		609.318	2^+			E_γ: from 1993Di09 and 1994Mo06.
2472.9	0.0050 *17*	3081.84	$(1,2^+)$	609.318	2^+			E_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09.
								I_γ: from 2000Sa32; other: <0.0021 (1989Si17).
2482.8 *4*	0.0022 *4*	2482.460	$(1^-,2^+)$	0.0	0^+			E_γ: weighted average of 2482.8 *4* (1989Si17) and 2482.7 *4* (1993Di09,1994Mo06). Other: 2482 *3* (1967Bu17).
								I_γ: weighted average of 0.0043 *19* (1989Si17) and 0.0021 *4* (1994Mo06).
2482.8[‡] *4*	0.0045 *19*	3093.48	$(1^-,2^+)$	609.318	2^+			E_γ,I_γ: from 1989Si17.
2505.46 *13*	0.0124 *21*	2505.34	$(1^-,2^+)$	0.0	0^+			E_γ: weighted average of 2505.6 *4* (1969Li10), 2505.6 *2* (1989Si17) and 2505.39 *13* (1993Di09,1994Mo06). Other: 2505 *3* (1969La03).
								I_γ: weighted average of 0.0128 *21* (1989Si17), 0.012 *1* (1994Mo06) and 0.025 *7* (2000Sa32).
2529.7[†] *8*		3139.0		609.318	2^+			E_γ: from 1993Di09 and 1994Mo06.
2540.3[†] *8*		3149.2	$(1,2^+)$	609.318	2^+			E_γ: from 1993Di09 and 1994Mo06.
2550.6 *7*	0.0007 *2*	3160.4	$(1,2^+)$	609.318	2^+			E_γ: weighted average of 2551.0 *10* (1989Si17) and 2550.4 *7* (1993Di09,1994Mo06).
								I_γ: from 1993Di09 and 1994Mo06.
2553.0[†] *6*	≈0.0002	2553.0		0.0	0^+			E_γ,I_γ: from 1994Mo06.
2555.1[†] *8*		3164.4		609.318	2^+			E_γ: from 1993Di09 and 1994Mo06.
2562.0[†] *6*	0.0004 *2*	2562.4		0.0	0^+			E_γ,I_γ: from 1994Mo06.
2564.0[†] *6*	0.0003 *2*	3173.3		609.318	2^+			E_γ,I_γ: from 1993Di09 and 1994Mo06.
2574.2[‡]	<0.0011	3183.6	$(1,2^+)$	609.318	2^+			E_γ: from 1989Si17, assigned to ^{210}Pb in 1993Di09.
								I_γ: from 1989Si17.
2604.5 *5*	0.0009 *2*	2604.68	(2^+)	0.0	0^+			E_γ: weighted average of 2604.5 *10* (1989Si17) and 2604.5 *5* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.0010 *3* (1989Si17) and 0.0008 *2* (1994Mo06).
2630.9 *3*	0.0019 *4*	2630.84	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2630.9 *5* (1989Si17) and 2630.90 *28* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.0021 *11* (1989Si17), 0.0018 *3* (1994Mo06) and 0.0050 *17* (2000Sa32).
2662.4 *7*	0.0005 *1*	2662.33	(2^+)	0.0	0^+			E_γ: weighted average of 2662.0 *10* and 2662.6 *7* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.0010 *3* (1989Si17), 0.0006 *2* (1994Mo06) and 0.0004 *1* (2000Sa32).
2694.66 *13*	0.066 *3*	2694.62	$(1^-,2^+)$	0.0	0^+			E_γ: weighted average of 2695.1 *4* (1969Li10), 2694.8 *2* (1989Si17) and 2694.55 *13* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.070 *4* (1989Si17), 0.066 *3* (1994Mo06) and 0.062 *4* (2000Sa32).
2699.21 *20*	0.0061 *5*	2698.60	$(1,2)^+$	0.0	0^+			E_γ: weighted average of 2699.5 *10* (1969Li10), 2699.4 *3* (1989Si17) and 2699.12 *20* (1993Di09,1994Mo06).
								I_γ: weighted average of 0.0064 *19* (1989Si17) and 0.0061 *5* (1994Mo06).

^{214}Bi β^- decay   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}$Po) (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
2719.32 *19*	0.0039 *4*	2719.26	1^+	0.0	0^+	[M1]	0.00256 *4*	α(K)=0.001308 *18*; α(L)=0.0002158 *30*; α(M)=5.05×10^{-5} *7*; α(N)=1.299×10^{-5} *18* α(O)=2.72×10^{-6} *4*; α(P)=3.55×10^{-7} *5* E_γ: weighted average of 2719.4 *10* (1969Li10), 2719.4 *3* (1989Si17) and 2719.28 *19* (1993Di09,1994Mo06). I_γ: weighted average of 0.0043 *11* (1989Si17) and 0.0038 *4* (1994Mo06).
2769.92 *15*	0.054 *3*	2769.91	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2770.3 *4* (1969Li10), 2770.0 *2* (1989Si17) and 2769.83 *15* (1993Di09,1994Mo06). I_γ: weighted average of 0.055 *4* (1989Si17), 0.053 *3* (1994Mo06) and 0.048 *15* (2000Sa32).
2785.93 *15*	0.012 *1*	2785.97	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2786.1 *4* (1969Li10), 2786.1 *2* (1989Si17) and 2785.81 *15* (1993Di09,1994Mo06). I_γ: weighted average of 0.013 *2* (1989Si17), 0.012 *1* (1994Mo06) and 0.030 *11* (2000Sa32).
2826.96 *19*	0.0053 *6*	2826.82	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2827.6 *10* (1969Li10), 2827.0 *3* (1989Si17) and 2826.92 *19* (1993Di09,1994Mo06). I_γ: weighted average of 0.0064 *6* (1989Si17), 0.0048 *4* (1994Mo06) and 0.011 *6* (2000Sa32).
2861.1 *4*	0.0009 *2*	2860.93	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2860.9 *8* (1989Si17) and 2861.1 *4* (1993Di09,1994Mo06). I_γ: weighted average of 0.0007 *4* (1989Si17), 0.0009 *2* (1994Mo06) and 0.0008 *5* (2000Sa32).
2880.35 *14*	0.022 *3*	2880.36	$(1^-,2^+)$	0.0	0^+			E_γ: weighted average of 2280.7 *4* (1969Li10), 2280.4 *3* (1989Si17) and 2280.29 *14* (1993Di09,1994Mo06). I_γ: weighted average of 0.019 *3* (1989Si17), 0.020 *2* (1994Mo06) and 0.030 *3* (2000Sa32).
2893.59 *14*	0.013 *1*	2893.60	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2893.7 *4* (1969Li10), 2893.6 *2* (1989Si17) and 2893.46 *14* (1993Di09,1994Mo06). I_γ: weighted average of 0.015 *3* (1989Si17), 0.012 *1* (1994Mo06) and 0.017 *3* (2000Sa32).
2921.97 *15*	0.030 *2*	2921.89	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2922.2 *4* (1969Li10), 2922.1 *2* (1989Si17) and 2921.86 *15* (1993Di09,1994Mo06). I_γ: weighted average of 0.034 *2* (1989Si17), 0.029 *1* (1994Mo06) and 0.035 *4* (2000Sa32).
2928.53 *22*	0.0024 *2*	2928.55	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2928.7 *8* (1989Si17) and 2928.52 *22* (1993Di09,1994Mo06). I_γ: weighted average of 0.0021 *13* (1989Si17), 0.0024 *2* (1994Mo06).
2934.54 *25*	0.0010 *2*	2934.54	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2934.9 *8* (1989Si17) and 2934.51 *25* (1993Di09,1994Mo06). I_γ: weighted average of 0.0012 *5* (1989Si17, 0.012 listed as a typo from Priv. Comm. from B. Singh with Y. A. Akovali, May 1995), 0.0010 *2* (1994Mo06) and 0.005 *3* (2000Sa32).
2940.0	0.008 *3*	2940.67	$(1^-,2^+)$	0.0	0^+			E_γ: from 1989Si17. I_γ: from 2000Sa32; other: <0.0004 (1989Si17).
2978.94 *15*	0.030 *1*	2978.93	$(1,2^+)$	0.0	0^+			E_γ: weighted average of 2979.0 *4* (1969Li10), 2978.8 *2* (1989Si17) and 2979.01 *15* (1993Di09,1994Mo06). I_γ: weighted average of 0.031 *2* (1989Si17), 0.030 *1* (1994Mo06) and 0.034 *7* (2000Sa32).

$^{214}\text{Bi}\,\beta^-$ **decay**   **1994Mo06,1989Si17 (continued)**

$\gamma(^{214}\text{Po})$ (continued)

E_γ	I_γ [@]	E_i(level)	J_i^π	E_f	J_f^π	Comments
3000.0 *2*	0.019 *2*	3000.00	$(1^-,2^+)$	0.0	0^+	E_γ: weighted average of 3000.1 *4* (1969Li10), 3000.0 *2* (1989Si17) and 2999.8 *3* (1993Di09,1994Mo06).
						I_γ: weighted average of 0.019 *4* (1989Si17), 0.019 *1* (1994Mo06) and 0.030 *5* (2000Sa32).
3053.9 *2*	0.046 *5*	3053.88	$(1,2^+)$	0.0	0^+	E_γ: weighted average of 3054.0 *4* (1969Li10), 3053.9 *2* (1989Si17) and 3053.8 *5* (1993Di09,1994Mo06).
						I_γ: weighted average of 0.049 *4* (1989Si17), 0.041 *2* (1994Mo06) and 0.057 *3* (2000Sa32).
3081.79 *25*	0.013 *4*	3081.84	$(1,2^+)$	0.0	0^+	E_γ: weighted average of 3081.7 *4* (1969Li10), 3081.7 *3* (1989Si17) and 3081.89 *25* (1993Di09,1994Mo06).
						I_γ: unweighted average of 0.0085 *17* (1989Si17), 0.011 *1* (1994Mo06) and 0.020 *4* (2000Sa32).
3094.0 *4*	0.0013 *4*	3093.48	$(1^-,2^+)$	0.0	0^+	E_γ: weighted average of 3093.9 *8* (1989Si17) and 3094.0 *4* (1993Di09,1994Mo06).
						I_γ: unweighted average of 0.0021 *4* (1989Si17), 0.0008 *1* (1994Mo06) and 0.0010 *3* (2000Sa32).
[x]3136.3 *10*	0.0008 *3*					E_γ: from 1969Li10.
						I_γ: from 2000Sa32.
3142.6 *4*	0.0027 *3*	3142.6	$(1,2^+)$	0.0	0^+	E_γ: weighted average of 3142.5 *7* (1969Li10), 3142.6 *4* (1989Si17) and 3142.5 *4* (1993Di09,1994Mo06).
						I_γ: weighted average of 0.0043 *13* (1989Si17), 0.0026 *2* (1994Mo06) and 0.0060 *28* (2000Sa32).
3149.0[†] *5*	≈0.00019	3149.2	$(1,2^+)$	0.0	0^+	E_γ,I_γ: from 1993Di09 and 1994Mo06.
3160.7 *6*	0.0012 *3*	3160.4	$(1,2^+)$	0.0	0^+	E_γ: weighted average of 3161.2 *10* (1969Li10), 3160.5 *7* (1989Si17) and 3160.6 *6* (1993Di09,1994Mo06).
						I_γ: weighted average of 0.0021 *5* (1989Si17), 0.0010 *2* (1994Mo06) and 0.0030 *17* (2000Sa32).
3183.6 *4*	0.0030 *5*	3183.6	$(1,2^+)$	0.0	0^+	E_γ: weighted average of 3182.8 *10* (1969Li10), 3183.6 *4* (1989Si17) and 3183.6 *4* (1993Di09,1994Mo06).
						I_γ: weighted average of 0.0042 *11* (1989Si17), 0.0028 *2* (1994Mo06) and 0.0060 *10* (2000Sa32).
[x]3233.2 *24*	0.0005 *3*					E_γ: from 1993Di09; other: ≈3233.3 (1975Ha31).
						I_γ: from 2000Sa32.
[x]3269.7 *15*	0.0004 *3*					E_γ: from 1993Di09; others: ≈3269.7 (1975Ha31).
						I_γ: from 2000Sa32.

[†] Placed in level scheme only by 1994Mo06 based on $\gamma\gamma$ coincidence.

[‡] Placed in level scheme only by 1989Si17 based on $\gamma\gamma$ coincidence.

[#] Possible multiply-placed transitions.

[@] For absolute intensity per 100 decays, multiply by 0.4544 *19*.

[&] Placement of transition in the level scheme is uncertain.

[x] γ ray not placed in level scheme.

^{214}**Bi** β^- **decay**   **1994Mo06,1989Si17**

Decay Scheme

Intensities: I_γ per 100 parent decays

Legend

→ $I_\gamma < 2\% \times I_\gamma^{max}$
→ $I_\gamma < 10\% \times I_\gamma^{max}$
→ $I_\gamma > 10\% \times I_\gamma^{max}$
--→ γ Decay (Uncertain)
● Coincidence

1^- 0.0   19.71 min *2*

Q_{β^-}=3269 *11* $\%\beta^-$=99.9790

$^{214}_{83}$Bi$_{131}$

$I\beta^-$	Log ft		level
		$(1,2^+)$	3262.4
0.0016	6.57		3183.6
0.00014	7.8		3173.3
			3164.4
0.00086	7.16	$(1,2^+)$	3160.4
0.0000863	8.29	$(1,2^+)$	3149.2
0.0021	6.97	$(1,2^+)$	3142.6
			3139.0
0.0088	6.79	$(1^-,2^+)$	3093.48
0.0082	6.91	$(1,2^+)$	3081.84
			3078.7
			3068.3
0.037	6.44	$(1,2^+)$	3053.88
			3039.3
			3030.3
		$(2^-,3,4^+)$	3022.3
1.433	7.422	(2^+)	2010.831
8.16	6.859	2^+	1847.446
17.55	6.654	2^+	1729.613
0.57	8.21	2^+	1661.282
0.90	8.25	0^+	1415.498 99 ps *3*
7.22	7.374	2^+	1377.681
0.06	9.5	3^-	1274.765
0.55	9.06	2^+	609.318
19.2	7.872	0^+	0.0 163.46 μs *4*

Gamma labels:
1532.8; 3183.6 0.00136; 2574.2 <0.00050; 2564.0 0.00014; 2555.4; 3160.7 0.00055; 2550.6 0.00032; 3149.0 ≈0.000086; 2540.3; 3142.6 0.00123; 1481.3 0.0009; 2529.7; 3094.0 0.00059; 2482.8 0.0020; 1819.2 <0.0014; 1717.0 0.0055; 3081.79 0.0059; 2472.9 0.0023; 2469.4; 2459.0; 3053.9 0.0209; 2444.7 0.0077; 1676.1 <0.0023; 1637.0 0.007; 1206.4; 2430.0; 2421.0; 2413.1; 1747.2; 1644.0; 1361.2; 1011.8

$^{214}_{84}$Po$_{130}$

^{214}**Bi β^- decay**　　**1994Mo06,1989Si17**

Decay Scheme (continued)

Intensities: I$_\gamma$ per 100 parent decays

Legend

I$_\gamma$ < 2%×I$_\gamma^{max}$
I$_\gamma$ < 10%×I$_\gamma^{max}$
I$_\gamma$ > 10%×I$_\gamma^{max}$
γ Decay (Uncertain)
● Coincidence

1$^-$　　　0.0　　19.71 min *2*
Q$_{\beta^-}$=3269 *11*　　%β^-=99.9790

$^{214}_{83}$Bi$_{131}$

Iβ^-　　Log *ft*

0.040　　6.64　　(1,2$^+$)　　3014.11
　　　　　　　　　3005.8
0.007　　7.46　　3003.4
0.0102　　7.31　　(1$^-$,2$^+$)　　3000.00
0.0091　　7.43　　(2$^-$,3)　　2986.22
0.0164　　7.21　　(1,2$^+$)　　2978.93
　　　　　　　　　2967.6
0.00036　　8.94　　2962.8
0.049　　6.91　　(1$^-$,2$^+$)　　2940.67
0.00214　　8.29　　(1,2$^+$)　　2934.54
0.00109　　8.61　　(1,2$^+$)　　2928.55
0.0227　　7.32　　(1,2$^+$)　　2921.89
0.0014　　8.5　　2919.5
0.0045　　8.12　　2896.98
0.273　　6.89　　1$^+$　　2719.26
0.103　　7.37　　(1,2)$^+$　　2698.60

2.78　　6.478　　1$^-$　　2447.701

8.16　　6.859　　2$^+$　　1847.446
17.55　　6.654　　2$^+$　　1729.613
0.57　　8.21　　2$^+$　　1661.282
3.09　　7.593　　2$^+$　　1543.370
0.90　　8.25　　0$^+$　　1415.498　　99 ps *3*
7.22　　7.374　　2$^+$　　1377.681
0.06　　9.5　　3$^-$　　1274.765
0.55　　9.06　　2$^+$　　609.318
19.2　　7.872　　0$^+$　　0.0　　163.46 μs *4*

$^{214}_{84}$Po$_{130}$

Gamma transition labels:
2405.1 0.00041, 1636.36 0.0114, 1598.0 0.006, 1471.1 0.0016, 1353.0 0.0045, 1385.1 0.016, 314.9, 2396.5, 1156 0.007, 3000.0 0.0086, 2390.82, 1723.7, 551.9, 280.6, 2276.89 0.0091, 1711.0 0.0018, 2978.94 0.0136, 2369.56 0.0027, 2558.0 0.00036, 1693.4, 2253.5 0.00036, 2940.0 0.0036, 2331.38 0.023, 1665.86 0.009, 1279.0 0.0132, 2934.54 0.00045, 2325.18 0.00168, 2928.53 0.00109, 2319.3 0.00041, 2921.97 0.00156, 2312.45 0.0001, 2310.2 0.0014, 2287.65 0.0045

^{214}Bi β^- decay   1994Mo06,1989Si17

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays

Legend

- → $I_\gamma < 2\% \times I_\gamma^{max}$
- → $I_\gamma < 10\% \times I_\gamma^{max}$
- → $I_\gamma > 10\% \times I_\gamma^{max}$
- ----→ γ Decay (Uncertain)
- ●   Coincidence

1^- 0.0   19.71 min *2*

$Q_{\beta-}$ =3269 *11*   %β^-=99.9790

$^{214}_{83}$Bi$_{131}$

$I\beta^-$	Log ft		Level
0.033	7.27	$(1,2^+)$	2893.60
0.0113	7.78	$(1^-,2^+)$	2880.36
0.014	7.73	$(2^-,3^-)$	2869.63
0.032	7.40	$(1,2^+)$	2860.93
0.043	7.38	$(1,2^+)$	2826.82
0.033	8.21		2544.92
2.78	6.478	1^-	2447.701
0.192	7.94	2^+	2266.41
8.16	6.859	2^+	1847.446
16.90	6.634	1^+	1764.520
3.09	7.593	2^+	1543.370
7.22	7.374	2^+	1377.681
0.06	9.5	3^-	1274.765
0.55	9.06	2^+	609.318
19.2	7.872	0^+	0.0 163.46 μs *4*

Gamma transitions (top labels):
2893.59 0.0059, 2284.33 0.0050, 1515.7 0.018, 626.4 0.0041, 2880.35 0.0100, 2270.9 0.00132, 2260.32 0.0086, 1594.8 0.005, 422.0, 2861.1 0.000041, 2251.55 0.0055, 1483.5 0.013, 1317.7, 1013.4 0.013, 2826.96 0.0024, 1448.85 0.018, 1062.4 0.013, 252.0 0.010

$^{214}_{84}$Po$_{130}$

^{214}**Bi** β^- **decay**　　**1994Mo06,1989Si17**

Decay Scheme (continued)

Intensities: I$_\gamma$ per 100 parent decays

Legend

I$_\gamma$ < 2% × I$_\gamma^{max}$
I$_\gamma$ < 10% × I$_\gamma^{max}$
I$_\gamma$ > 10% × I$_\gamma^{max}$
γ Decay (Uncertain)
● Coincidence

1$^-$　　0.0　19.71 min 2

Q$_{\beta^-}$=3269 11　%β^-=99.9790

$^{214}_{83}$Bi$_{131}$

Iβ^-	Log ft		
0.0082	8.18		2802.54
			2794.1
0.048	7.46	(1,2$^+$)	2785.97
0.063	7.39	(1,2$^+$)	2769.91
0.542	6.57	(0$^+$,1,2)	2728.617
0.273	6.89	1$^+$	2719.26
2.78	6.478	1$^-$	2447.701
0.22	7.97	(2$^-$,3)	2208.69
5.56	6.573	1$^+$	2204.103
4.33	6.801	1$^+$	2118.535
0.081	8.57	(1,2$^+$)	2088.44
1.433	7.422	(2$^+$)	2010.831
1.192	7.522	1$^-$	1994.639
8.16	6.859	2$^+$	1847.446
16.90	6.634	1$^+$	1764.520
0.138	8.74	0$^{(+)}$	1742.99
0.57	8.21	2$^+$	1661.282
3.09	7.593	2$^+$	1543.370
0.90	8.25	0$^+$	1415.498　99 ps 3
7.22	7.374	2$^+$	1377.681
0.55	9.06	2$^+$	609.318
19.2	7.872	0$^+$	0.0　163.46 μs 4

Transition labels:
2193.3 0.0082, 1038.0 0.0082, 598.5, 2184.8, 2785.93 0.0055, 2176.52 0.0050, 1370.5 0.0100, 1021.4 0.015, 938.65 0.013, 581.9, 2769.92 0.0245, 2160.4 0.0018, 1392.5 0.0017, 1226.8 0.030, 1108.8 0.0068, 2120.0 0.0068, 1351.0 0.0068, 1067.4 0.025, 964.08 0.373, 733.81 0.040, 524.60 0.0168, 519.90 0.0164, 280.97 0.064, 2719.32 [M1]0.00177, 2109.98 [M1+E2]0.085, 1341.49 [M1+E2]0.021, 1303.75 M1 0.105, 1058.1 [M1+E2]0.008, 976.18 0.150, 708.95 0.0123, 630.81 0.0164, 600.0 [M1+E2]0.008

$^{214}_{84}$Po$_{130}$

^{214}Bi β^- decay　　1994Mo06,1989Si17

Decay Scheme (continued)

Intensities: I$_\gamma$ per 100 parent decays

Legend

I$_\gamma$ < 2%×I$_\gamma^{max}$
I$_\gamma$ < 10%×I$_\gamma^{max}$
I$_\gamma$ > 10%×I$_\gamma^{max}$
γ Decay (Uncertain)
● Coincidence

1^-　　0.0　19.71 min *2*

Q$_{\beta^-}$=3269 *11*　%β^-=99.9790

${}^{214}_{83}$Bi$_{131}$

Iβ^-	Log *ft*		
0.103	7.37	(1,2)$^+$	2698.60
0.249	7.00	(1$^-$,2$^+$)	2694.62
0.125	7.38	(2$^+$)	2662.33
0.037	7.98	(1,2$^+$)	2630.84
2.78	6.478	1$^-$	2447.701
0.22	7.97	(2$^-$,3)	2208.69
5.56	6.573	1$^+$	2204.103
2.459	7.179	0$^+$	2017.315
1.433	7.422	(2$^+$)	2010.831
1.192	7.522	1$^-$	1994.639
8.16	6.859	2$^+$	1847.446
16.90	6.634	1$^+$	1764.520
0.138	8.74	0$^{(+)}$	1742.99
17.55	6.654	2$^+$	1729.613
0.153	9.57^{1u}	(3$^+$)	1712.93
0.57	8.21	2$^+$	1661.282
3.09	7.593	2$^+$	1543.370
7.22	7.374	2$^+$	1377.681
0.06	9.5	3$^-$	1274.765
0.55	9.06	2$^+$	609.318
19.2	7.872	0$^+$	0.0　163.46 μs *4*

${}^{214}_{84}$Po$_{130}$

^{214}Bi β^- decay   1994Mo06,1989Si17

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays

Legend

→ $I_\gamma < 2\% \times I_\gamma^{max}$
→ $I_\gamma < 10\% \times I_\gamma^{max}$
→ $I_\gamma > 10\% \times I_\gamma^{max}$
--→ γ Decay (Uncertain)
● Coincidence

1^- 0.0   19.71 min *2*

Q_{β^-}=3269 *11*   %β^-=99.9790

$^{214}_{83}Bi_{131}$

$I\beta^-$	Log ft		Level
0.20	7.30	(2^+)	2604.68
0.00018	10.44		2562.4
0.0000909	10.758		2553.0
0.033	8.21		2544.92
0.130	7.69	(0^+)	2508.12
0.174	7.57	$(1^-,2^+)$	2505.34
1.28	6.75	$(1^-,2^+)$	2482.460
0.22	7.97	$(2^-,3)$	2208.69
5.56	6.573	1^+	2204.103
0.46	7.73	$(1^-,2^+)$	2147.86
0.081	8.57	$(1,2^+)$	2088.44
1.433	7.422	(2^+)	2010.831
1.192	7.522	1^-	1994.639
8.16	6.859	2^+	1847.446
16.90	6.634	1^+	1764.520
17.55	6.654	2^+	1729.613
0.153	9.57^{1u}	(3^+)	1712.93
0.57	8.21	2^+	1661.282
3.09	7.593	2^+	1543.370
7.22	7.374	2^+	1377.681
0.06	9.5	3^-	1274.765
0.55	9.06	2^+	609.318
19.2	7.872	0^+	0.0 163.46 μs *4*

Gamma labels (energy, intensity):
2604.5 0.000041, 1994.6 0.0007, 1329.94 0.0118, 1226.7 0.13, 943.33 0.016, 891.8, 840.4 0.010, 396.02 0.027, 2562.0 0.00018, 1953.4, 2553.0 ≈0.000091, 1943.7, 1935.58 0.0030, 1167.26 0.0123, 36.8, 1898.68 0.050, 1130.38 0.037, 965.00 0.010, 496.89 0.0068, 304.00 0.0259, 2505.46 0.0056, 1896.05 0.150, 1230.6 0.008, 961.66 0.0105, 2482.8 0.00100, 1873.16 0.214, 1207.68 0.454, 1104.68 0.076, 939.6 0.020, 821.18 0.164, 752.84 0.132, 634.77 0.0064, 487.7 0.028, 394.04 0.0132, 334.9 0.055, 273.79 0.127
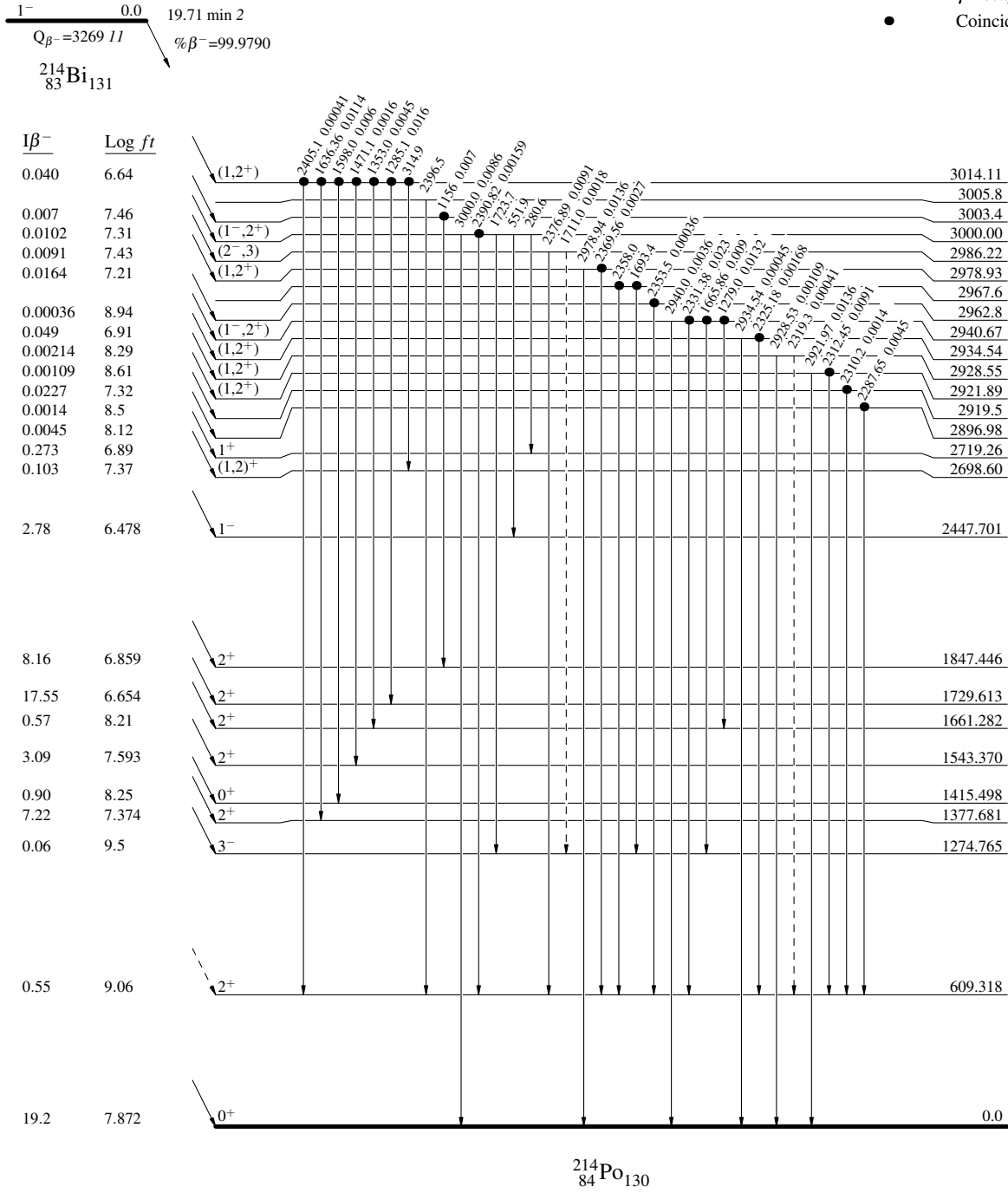
$^{214}_{84}Po_{130}$

^{214}Bi β^- decay　　1994Mo06,1989Si17

Decay Scheme (continued)

Intensities: I$_\gamma$ per 100 parent decays

Legend

→ I$_\gamma$ < 2%×I$_\gamma^{max}$
→ I$_\gamma$ < 10%×I$_\gamma^{max}$
→ I$_\gamma$ > 10%×I$_\gamma^{max}$
--→ γ Decay (Uncertain)
● Coincidence

Iβ^-	Log ft		
2.78	6.478	1$^-$	2447.701
0.084	8.04	(1,2$^+$)	2423.25
0.024	8.69	(1,2$^+$)	2360.97
0.00014	10.9	(1,2$^+$)	2348.3
0.563	7.433	(1$^+$,2$^+$)	2293.362
0.192	7.94	2$^+$	2266.41
5.56	6.573	1$^+$	2204.103
0.866	7.397	(2)$^+$	2192.536
0.081	8.57	(1,2$^+$)	2088.44
1.192	7.522	1$^-$	1994.639
16.90	6.634	1$^+$	1764.520
0.138	8.74	0$^{(+)}$	1742.99
17.55	6.654	2$^+$	1729.613
0.153	9.57^{1u}	(3$^+$)	1712.93
0.57	8.21	2$^+$	1661.282
3.09	7.593	2$^+$	1543.370
0.90	8.25	0$^+$	1415.498　99 ps 3
7.22	7.374	2$^+$	1377.681
0.06	9.5	3$^-$	1274.765
0.55	9.06	2$^+$	609.318
19.2	7.872	0$^+$	0.0　163.46 μs 4

$^{214}_{84}$Po$_{130}$

1$^-$　　0.0　19.71 min 2
Q$_{\beta-}$=3269 11　%β^-=99.9790
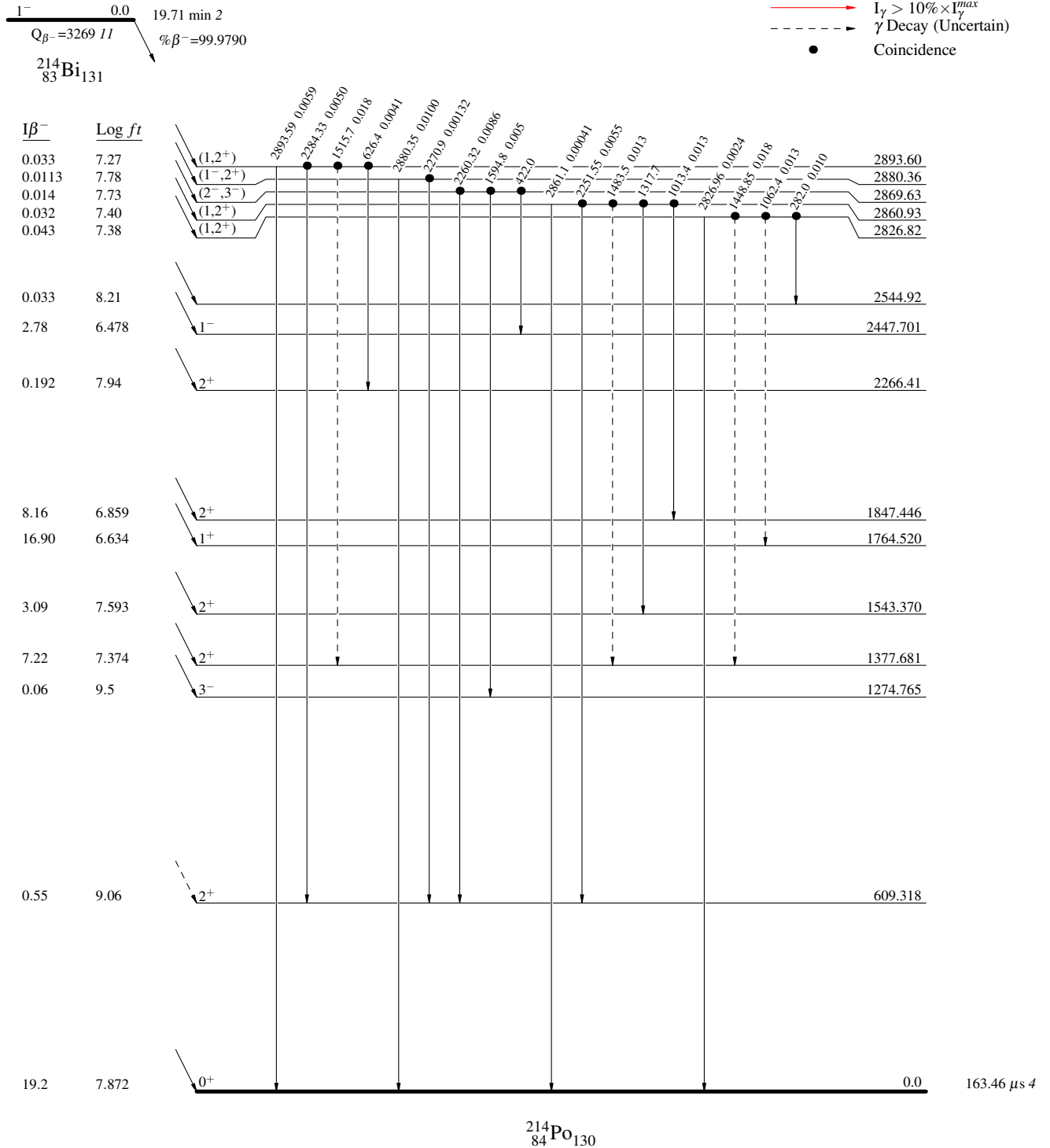$^{214}_{83}$Bi$_{131}$

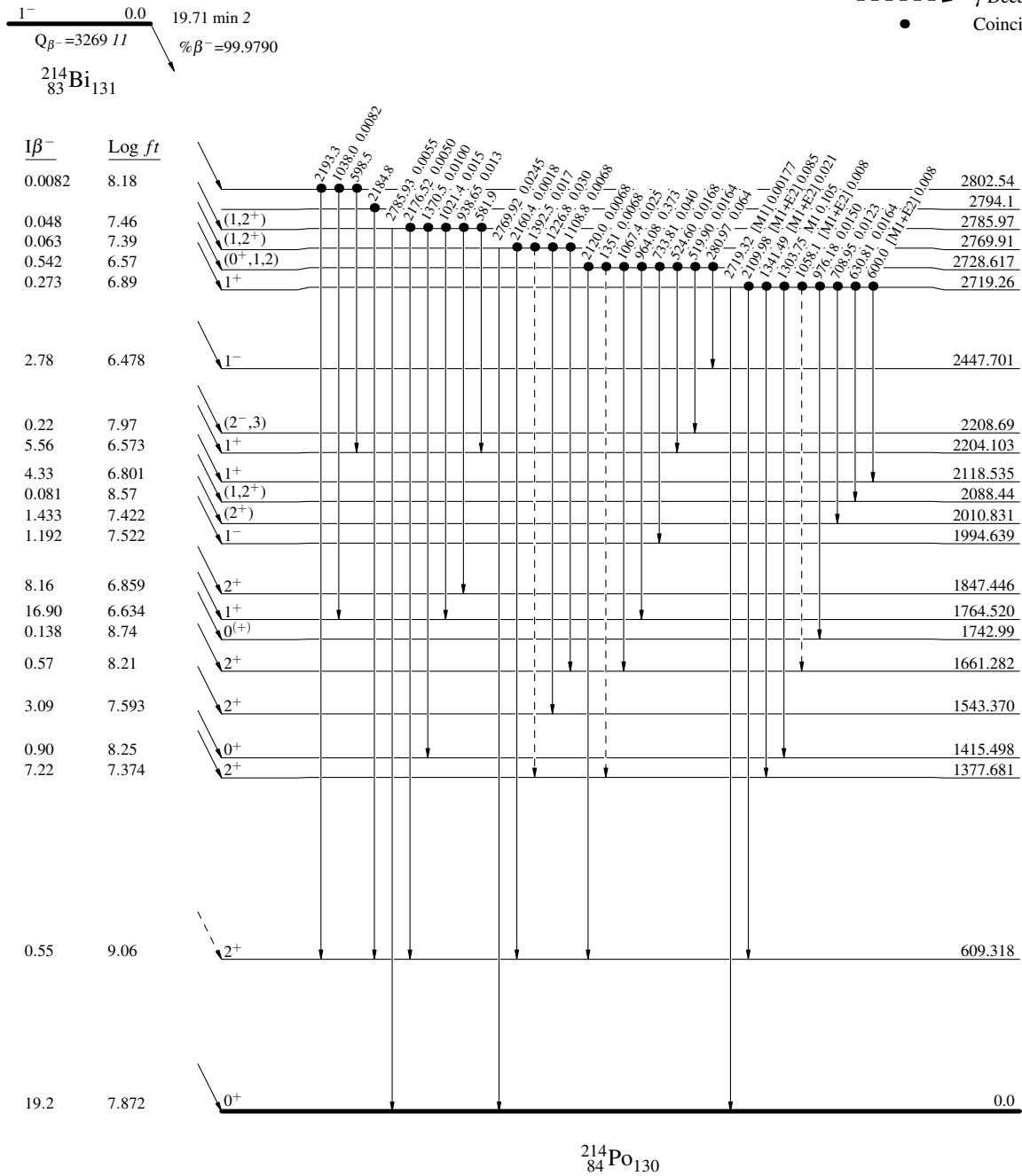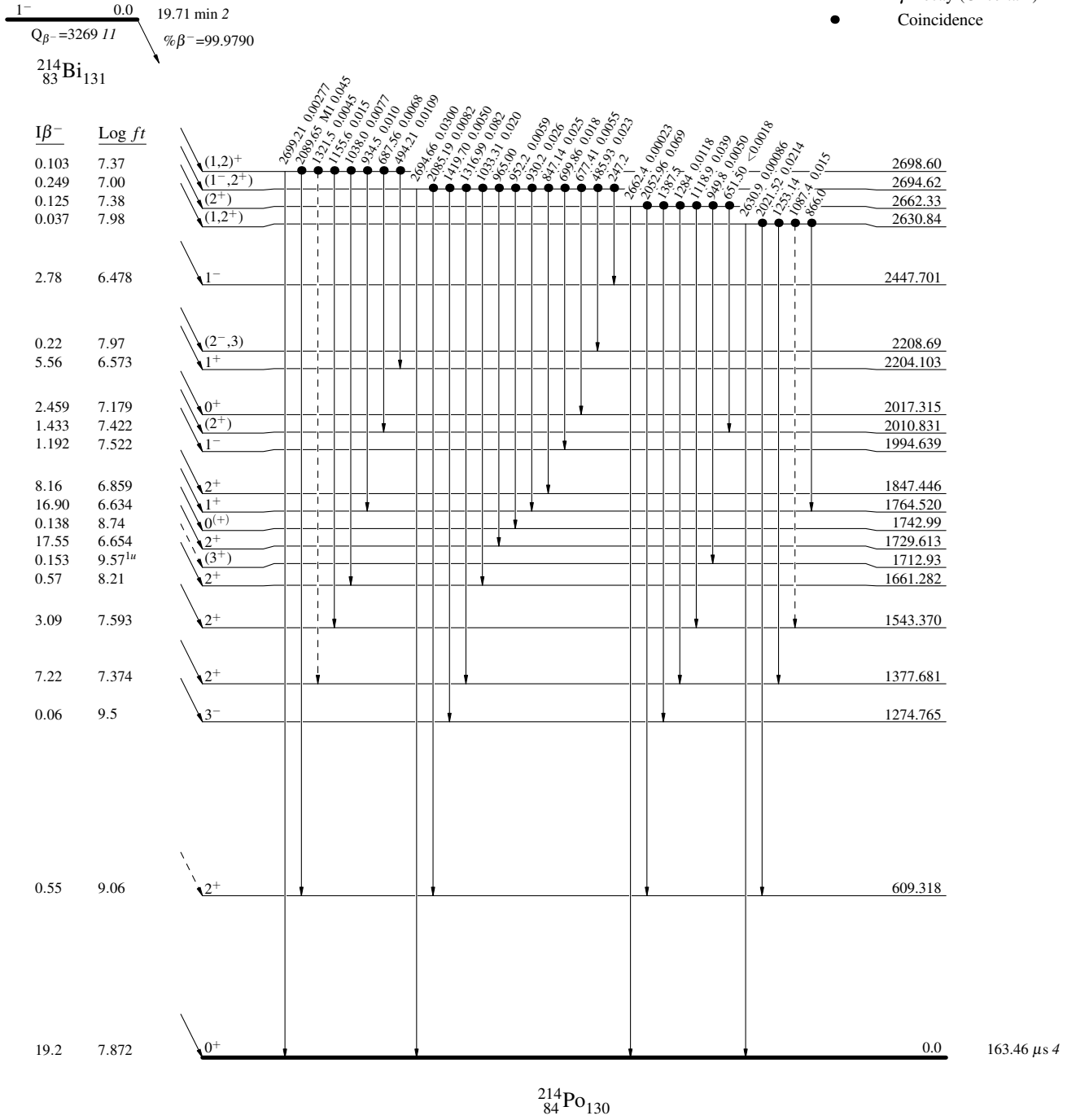^{214}**Bi** β^- **decay**   **1994Mo06,1989Si17**

Decay Scheme (continued)

Intensities: I$_\gamma$ per 100 parent decays

Legend

- I$_\gamma$ < 2%×I$_\gamma^{max}$
- I$_\gamma$ < 10%×I$_\gamma^{max}$
- I$_\gamma$ > 10%×I$_\gamma^{max}$
- γ Decay (Uncertain)
- ● Coincidence

1$^-$ 0.0   19.71 min *2*

Q$_{\beta-}$=3269 *11*   %β$^-$=99.9790

$^{214}_{83}$Bi$_{131}$

Iβ$^-$	Log ft		Level
0.22	7.97	(2$^-$,3)	2208.69
5.56	6.573	1$^+$	2204.103
0.866	7.397	(2)$^+$	2192.536
0.46	7.73	(1$^-$,2$^+$)	2147.86
4.33	6.801	1$^+$	2118.535
0.081	8.57	(1,2$^+$)	2088.44
2.459	7.179	0$^+$	2017.315
16.90	6.634	1$^+$	1764.520
0.138	8.74	0$^{(+)}$	1742.99
17.55	6.654	2$^+$	1729.613
0.57	8.21	2$^+$	1661.282
3.09	7.593	2$^+$	1543.370
0.90	8.25	0$^+$	1415.498 (99 ps *3*)
7.22	7.374	2$^+$	1377.681
0.06	9.5	3$^-$	1274.765
0.55	9.06	2$^+$	609.318
19.2	7.872	0$^+$	0.0 (163.46 μs *4*)

Gamma labels:
1599.56 D+Q 0.327, 934.1 0.049, 547.21 0.034, 2204.10 M1 4.92, 1594.75 [M1+E2] 0.273, 826.41 [M1+E2] 0.105, 788.2 [M1] 0.015, 660.87 [M1+E2] 0.047, 542.81 [M1+E2] 0.073, 474.43 [M1+E2] 0.097, 461.06 [M1] 0.043, 2192.58 0.0039, 1583.203 M1 0.708, 917.7 0.005, 814.92 0.039, 649.20 0.055, 428.07 0.0114, 2148.00 0.0136, 1538.53 D+Q 0.436, 872.95 0.017, 769.7 0.029, 486.6 0.022, 2118.513 M1 1.156, 1509.211 [M1+E2] 2.127, 740.77 [M1+E2] 0.0432, 703.10 [M1] 0.482, 388.89 [M1] 0.386, 1479.19 0.055, 710.69 0.0741, 71.1, 2017.309 E0, 1407.988 (E2) 2.388, 639.61 [E2] 0.032, 356.05 [E2] 0.00068, 252.79 [M1] 0.0123

$^{214}_{84}$Po$_{130}$

^{214}**Bi** β^- **decay**　　**1994Mo06,1989Si17**
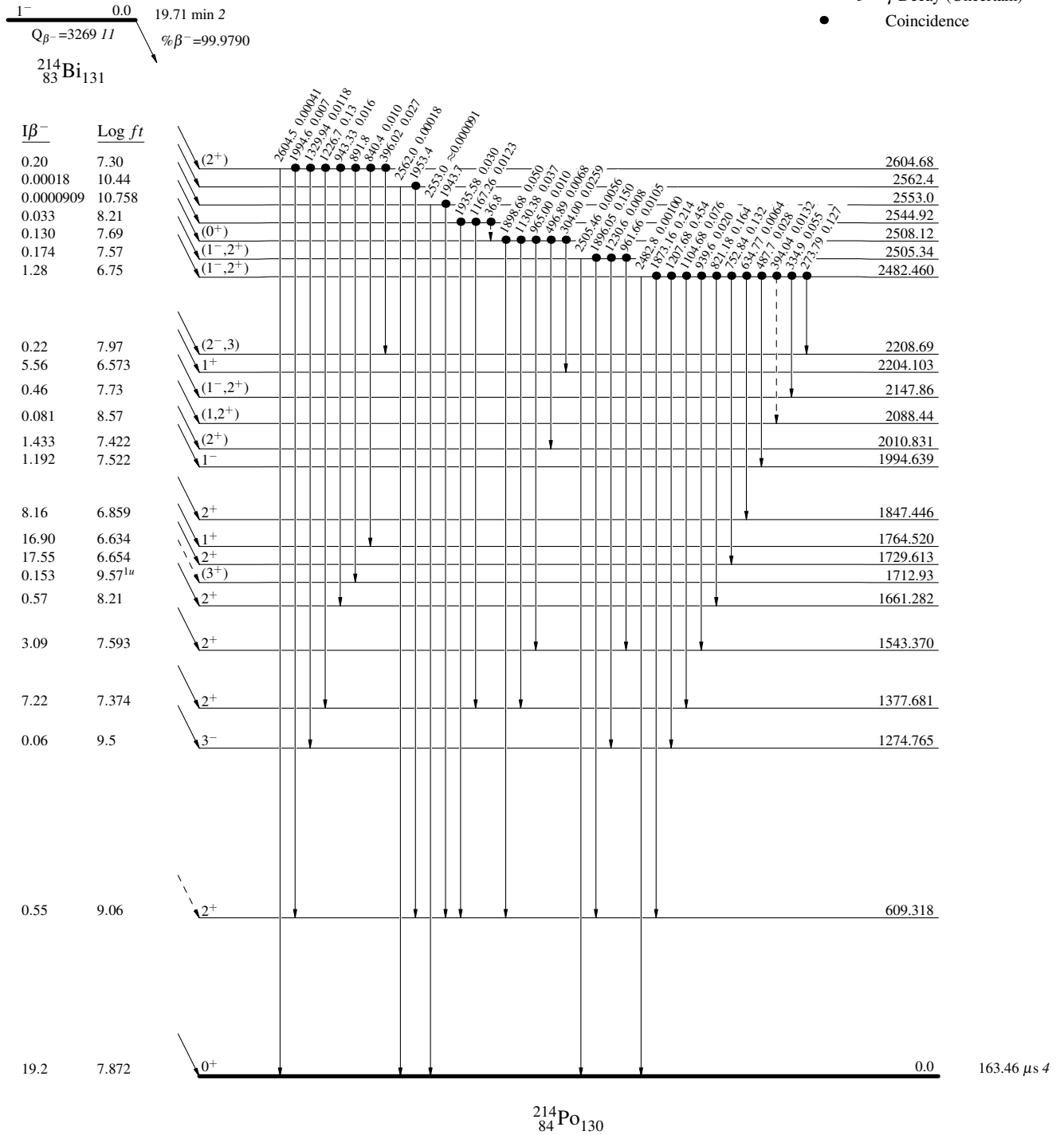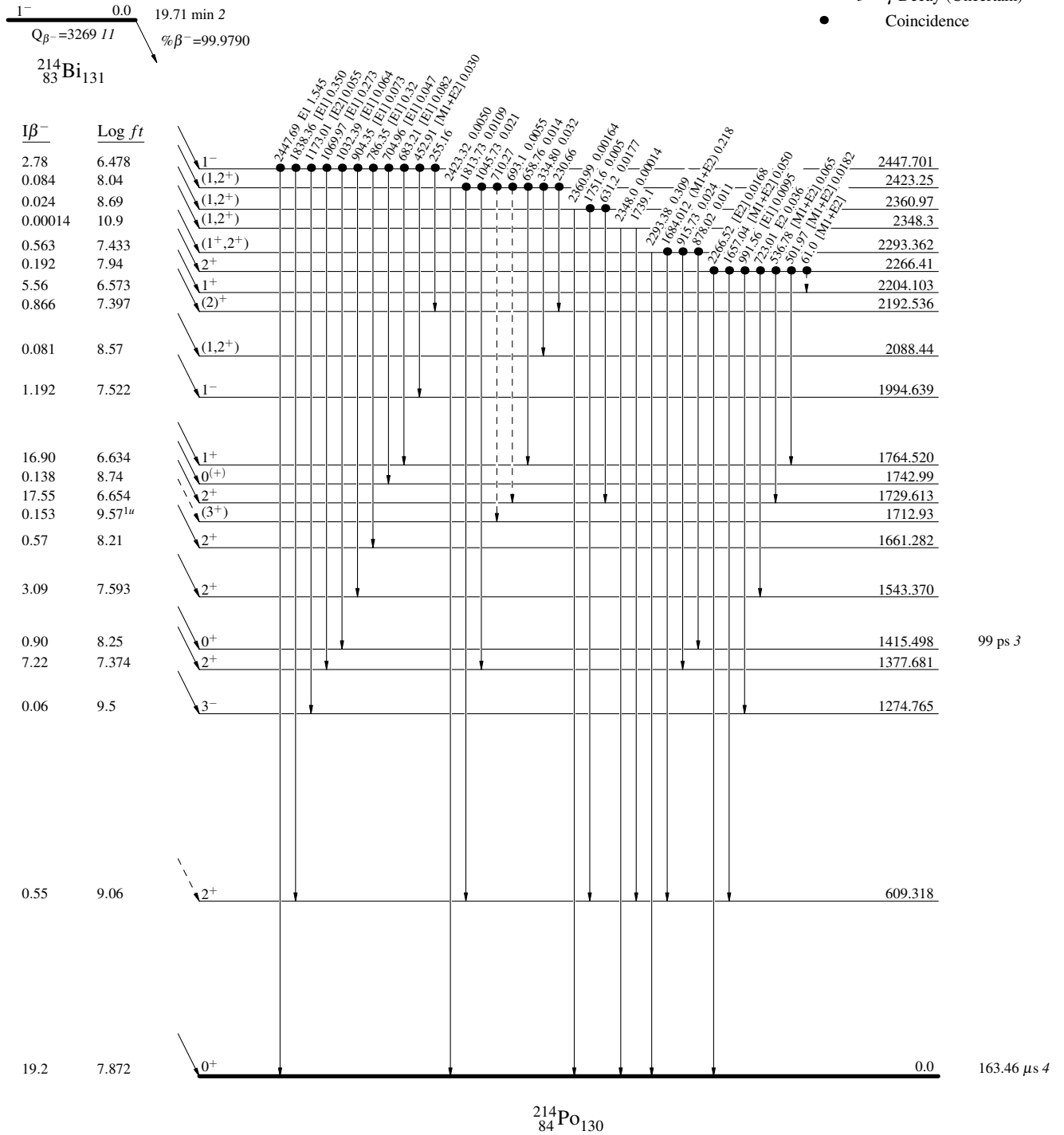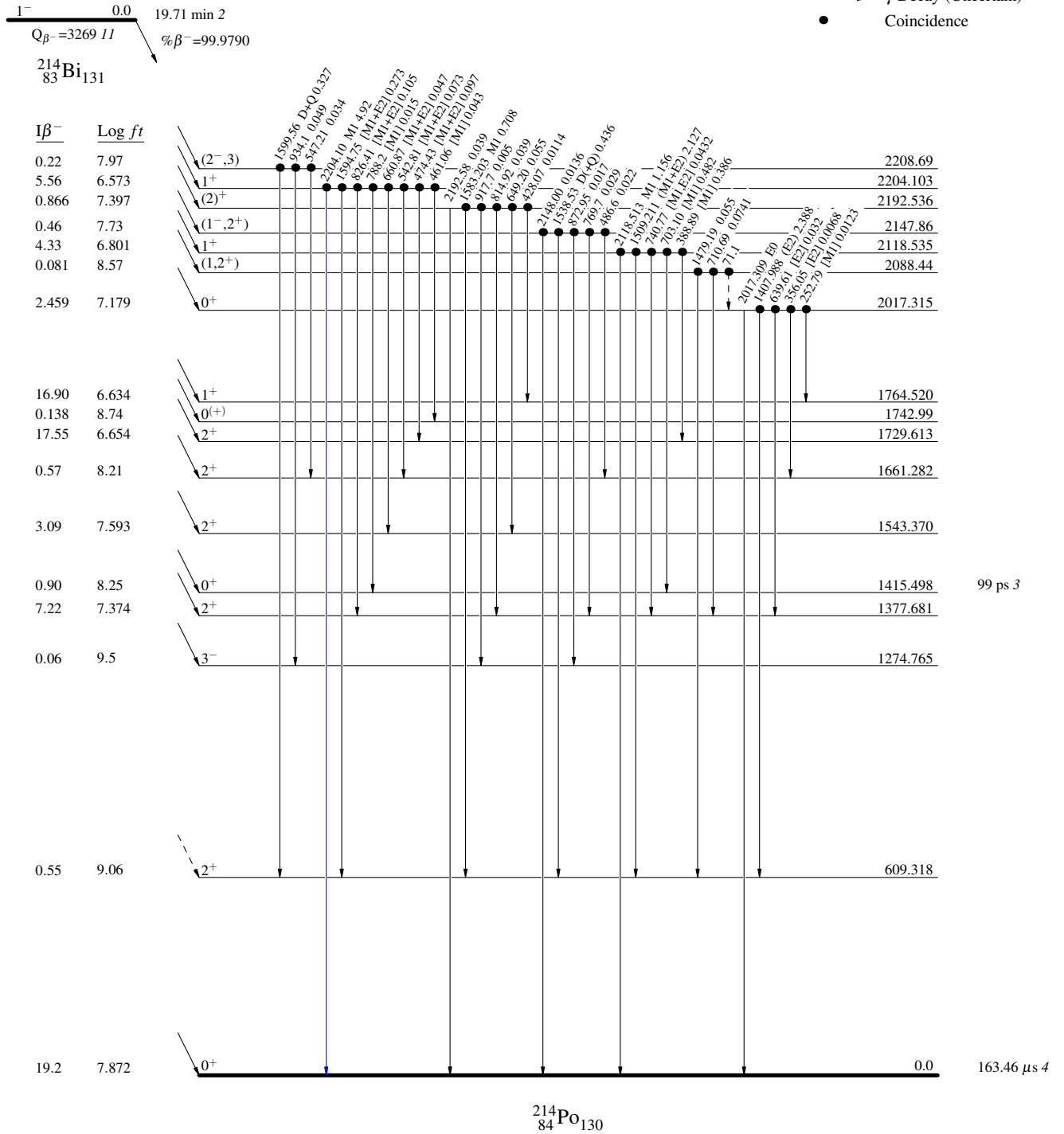
Decay Scheme (continued)

Intensities: I_γ per 100 parent decays

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)
● Coincidence

1^-　　0.0　19.71 min *2*

Q_{β^-}=3269 *11*　%β^-=99.9790

$^{214}_{83}$Bi$_{131}$

Iβ^-	Log *ft*		
1.433	7.422	(2^+)	2010.831
1.192	7.522	1^-	1994.639
1.589	7.521	$(2)^+$	1890.306
8.16	6.859	2^+	1847.446
16.90	6.634	1^+	1764.520
0.138	8.74	$0^{(+)}$	1742.99
17.55	6.654	2^+	1729.613
0.153	9.57^{1u}	(3^+)	1712.93
0.57	8.21	2^+	1661.282
3.09	7.593	2^+	1543.370
0.90	8.25	0^+	1415.498　99 ps *3*
7.22	7.374	2^+	1377.681
0.06	9.5	3^-	1274.765
0.079	9.63	(4^+)	1015.041
0.55	9.06	2^+	609.318
19.2	7.872	0^+	0.0　163.46 μs *4*

2010.80 0.0441
1401.515 (M1+E2) 1.333
633.09 0.055
595.24 0.0173
297.81
1385.310 D 0.801
719.86 E2 0.409
617.02 [E1] 0.0027
579.14 [E1]
333.37 [E1] 0.0064
230 [E1] 0.0029
104.4
1890.30 0.084
1280.976 M1 1.435
615.76 0.055
1847.433 [E2] 2.027
1238.122 M1 5.83
832.37 0.028
572.77 [E1] 0.078
469.76 [E1] 0.132
304.43 [M1,E2] 0.034
1764.491 M1 15.29
1155.210 [M1+E2] 1.634
386.77 [M1,E2] 0.295
348.92 [M1] 0.105
221.5 [M1,E2] 0.0027
1133.66 (E2) 0.354
1729.595 E2 2.87
1120.294 M1+E2 14.90
454.80 [E1] 0.291
351.9 [M1,E2] 0.068
1103.70 [M1,E2] 0.095
697.89 [M1,E2] 0.060

$^{214}_{84}$Po$_{130}$

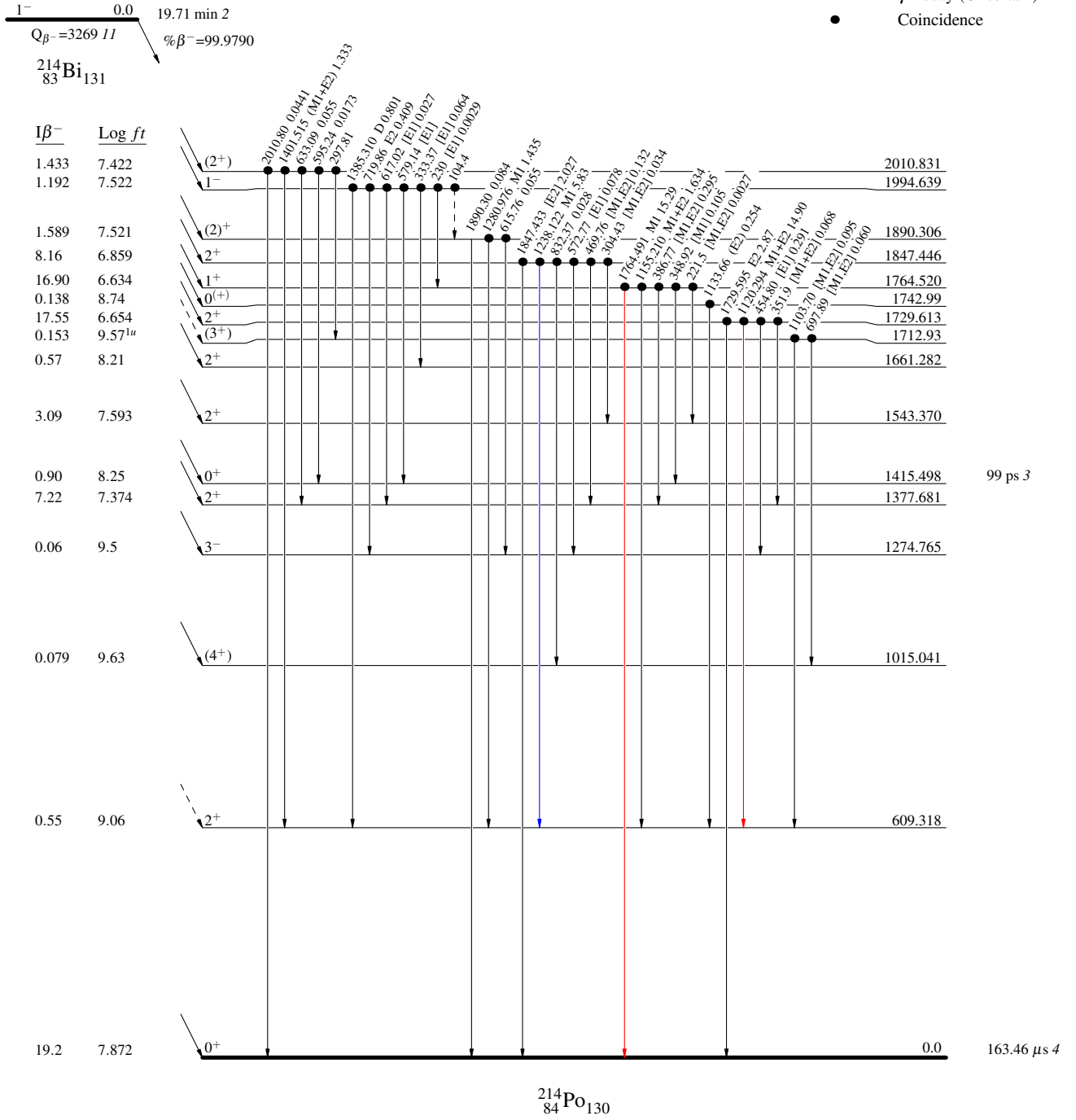^{214}**Bi** β^- **decay** 　　**1994Mo06,1989Si17**

Decay Scheme (continued)

Intensities: I$_\gamma$ per 100 parent decays

Legend

I$_\gamma$ < 2% ×I$_\gamma^{max}$
I$_\gamma$ < 10% ×I$_\gamma^{max}$
I$_\gamma$ > 10% ×I$_\gamma^{max}$
● 　Coincidence

$^{214}_{84}$Po$_{130}$