

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. J. Chiara and F. G. Kondev		NDS 111,141 (2010)	1-Oct-2009

$Q(\beta^-) = -4464$ 10; $S(n) = 8395$ 7; $S(p) = 6637.5$ 4; $Q(\alpha) = 1969.3$ 13 [2012Wa38](#)

Note: Current evaluation has used the following Q record $-4.44\text{E}+3$ 3 8394 6 6637.5 3 1969.5 12 [2003Au03](#).

²⁰⁴Pb Levels

Cross Reference (XREF) Flags

A	²⁰⁴ Tl β^- decay	H	²⁰⁴ Pb(e,e')	O	²⁰⁵ Tl(p,2n γ), ²⁰⁴ Pb(p,p' γ)
B	²⁰⁴ Pb IT decay (66.93 min)	I	²⁰⁴ Pb(n,n' γ)	P	²⁰⁶ Pb(p,t)
C	²⁰⁴ Bi ε decay	J	²⁰⁴ Pb(n,n')	Q	²⁰⁶ Pb(¹¹⁸ Sn,X γ)
D	²⁰⁸ Po α decay	K	²⁰⁴ Pb(p,p') IAR	R	²⁰⁹ Bi(μ^- ,5n γ)
E	¹⁹⁸ Pt(HI,pxng)	L	²⁰⁴ Pb(d,d')	S	²⁰⁹ Bi(π^- ,5n γ)
F	²⁰⁴ Hg(α ,4n γ)	M	²⁰⁴ Pb(α , α')		
G	²⁰⁴ Pb(γ , γ')	N	Coulomb excitation		

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0	0 ⁺	$\geq 1.4 \times 10^{17}$ y	ABCDEFGHIJKLMNOPS	α = ? T_{1/2}: 1958Ri23 and 1966Ka23 report α decay with T_{1/2} = 1.4×10^{17} y and E(α) = 2600 keV; however, this disagrees with adopted Q(α) = 1969.5 keV 12. Charge radius measured: $\langle r^2 \rangle^{1/2} = 5.4795$ fm 15 from (e,e) (1978Eu01). Charge radius differences measured: $\Delta \langle r^2 \rangle$ (²⁰⁴Pb, ²⁰⁶Pb) = -0.101 fm² 17 combining x-ray and optical shifts (1973Le16), -0.105 fm² 2 from collinear laser spectroscopy (1987Di06); $\Delta \langle r^2 \rangle$ (²⁰⁴Pb, ²⁰⁸Pb) = -0.2231 fm² 18 from laser spectroscopy (1986An06), -0.2080 fm² 23 from atomic-beam laser resonance (1983Th03), -0.220 fm² 9 from isotope shifts of K x ray (1983Bo08), -0.238 fm² 5 from optical isotope shifts (2005Wa34). Isotope shifts measured: with above methods (1973Le16, 1986An06, 1987Di06, 1983Th03, 2005Wa34), muonic x rays (1975Ke05), two-photon laser spectroscopy (1980Ti04). Neutron density radius relative to protons deduced: $\Delta r_{n-p} = 0.22$ fm 9 (1976Gi05), reanalysis of same data with different potential $\Delta r_{n-p} = 0.0$ fm 1 (1977Fr15). Charge density measured with (e,e) (1987Ca02). Penning trap mass measurement (2001Sc41). Q = +0.23 9 (1978Jo04); $\mu < 0.02$ (1986Bi13) E(level): Other: 1980Ho19 measure E = 897.17 13, an isomer shift of -2.0 keV, in muonic atom. J^π: L = 2 in (d,d'), (α,α'), (p,t); 899.15γ E2 to 0⁺. B(E2)$\uparrow$ = 0.166 2 (1978Jo04). Others: 0.166 9 (1974OI02), 0.151 15 (1972Ha59), 0.146 15 (1971Gr31), and 0.174 (1984Pa02); ratio of B(E2)$\uparrow$(²⁰⁴Pb)/B(E2)$\uparrow$(²⁰⁶Pb) = 1.7 2 (1962Na06), 1.7 (1965An13). T_{1/2}: From B(E2)$\uparrow$ = 0.166 2 (1978Jo04). Q: From Coulomb excitation reorientation. Other: +0.19 14 (1974OI02).
899.165 25	2 ⁺	2.88 ps 3	BCD FGHIJKLMNOPS	Q = +0.23 9 (1978Jo04); $\mu < 0.02$ (1986Bi13) E(level): Other: 1980Ho19 measure E = 897.17 13, an isomer shift of -2.0 keV, in muonic atom. J^π: L = 2 in (d,d'), (α,α'), (p,t); 899.15γ E2 to 0⁺. B(E2)$\uparrow$ = 0.166 2 (1978Jo04). Others: 0.166 9 (1974OI02), 0.151 15 (1972Ha59), 0.146 15 (1971Gr31), and 0.174 (1984Pa02); ratio of B(E2)$\uparrow$(²⁰⁴Pb)/B(E2)$\uparrow$(²⁰⁶Pb) = 1.7 2 (1962Na06), 1.7 (1965An13). T_{1/2}: From B(E2)$\uparrow$ = 0.166 2 (1978Jo04). Q: From Coulomb excitation reorientation. Other: +0.19 14 (1974OI02).
1274.13 5	4 ⁺	265 ns 6	BC F HIJKLMNOPS RS	Q = 0.44 2 (1989Ra17); $\mu = +0.224$ 3 B(E4)$\uparrow$ $\approx$ 0.029

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Adopted Levels, Gammas (continued) ^{204}Pb Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF		Comments
					J ^π : L=4 in (p,t), (d,d'); 374.76γ E2 to 2 ⁺ . T _{1/2} : Weighted average of 258 ns 12 (1963Sa19), 280 ns 12 (1967Li12) and 260 ns 10 (1978So02) in ^{204}Pb IT decay. μ: Weighted average of +0.216 20 (1955Kr06) by angular correlation attenuation, +0.226 8 (1963Sa19) and +0.220 12 (1967Li12) by differential angular correlation method, and +0.224 4 (1974Lu03) by TDPAD. B(E4): from (e,e'). J ^π : L=2 in (p,t); 452.0γ M1+E2 to 2 ⁺ . J ^π : L=4 in (p,t); 289.30γ M1+E2 to 4 ⁺ ; 663.43γ to 2 ⁺ . XREF: L(1579)O(1582.7)P(1582). J ^π : E0 to g.s. T _{1/2} : From ce(t) (1986Ka07) in (p,2nγ). XREF: L(1579)O(1582.76)P(1582). J ^π : 683.6γ M1+E2 to 2 ⁺ ; 1582.8γ E2 to 0 ⁺ . J ^π : 705.7γ M1+E2 to 2 ⁺ ; 330.6γ M1(+E2) to 4 ⁺ . XREF: K(1660)L(1663)M(1660)P(1663). J ^π : L=2 in (p,t); 1665.3γ E2 to 0 ⁺ ; 766.1γ M1(+E2) to 2 ⁺ . J ^π : 782.0γ D+Q to 2 ⁺ , 1681.2γ D; π from shell model. J ^π : 361.1γ and 813.1γ D(+Q)'s to 2 ⁺ levels and 438.0γ to 4 ⁺ imply J ^π =2 ⁺ ,3; 438.0γ(θ) most likely rules out stretched E2, E1; Also, 604.0γ (M1+E2) from 2316.29-keV 2 ⁺ level favors π=(+); nonobservation in (d,d') and in (p,t) favors unnatural parity. J ^π : E0 to g.s.; L=0 in (p,t). T _{1/2} : From ce(t) (1986Ka07) in (p,2nγ). J ^π : 1761.1γ E2 to 0 ⁺ , 861.9γ M1+E2 to 2 ⁺ . XREF: M(1820). J ^π : L=4 in (p,t); 918.26γ E2 to 2 ⁺ . XREF: K(1860). J ^π : 1872.1γ D to 0 ⁺ . J ^π : 1933.3γ D to 0 ⁺ . XREF: K(1950). J ^π : 1049.2γ M1+E2 (ΔJ=1) to 2 ⁺ , 674.1γ (M1+E2) to 4 ⁺ . Additional information 1. J ^π : L=2 in (p,t). J ^π : 501.72γ M1(+E2) to 4 ⁺ ; 791.20γ M1+E2 to 4 ⁺ ; 1573.0γ (E1+M2) from the 6 ⁻ level at 3638 keV. J ^π : L=2 in (p,t); 2105.5γ E2 to 0 ⁺ . J ^π : 883.8γ to 4 ⁺ ; 1258.9γ to 2 ⁺ ; possible feeding by 934.13γ from the 5 ⁻ level at 3092 keV favors 4 ⁺ . %IT=100 XREF: L(2180)M(2180). J ^π : 622.2γ and 911.74γ E5's to 4 ⁺ levels, L=9 in (p,t), (d,d'). Proposed configuration= $\nu[(f_{5/2})^{-1}(i_{13/2})^{-1}]$. T _{1/2} : Weighted average of 67.5 min 5 (1956He50), 66.9 min 1 (1958Ba04), 66 min 3 (1972Si22), 67.2 min 9 (1977SmZV), and 68.4 min 24 (2001Li17) in ^{204}Pb IT decay. J ^π : 850.7γ to 2 ⁺ . J ^π : 964.32γ to 4 ⁺ ; direct population in ^{204}Bi ε decay (J ^π =6 ⁺). XREF: P(2257). J ^π : 440.46γ E1 to 4 ⁺ ; 983.98γ E1(+M2) to 4 ⁺ ; L=5 in (p,t) (doublet with 2264.43-keV level); direct population in ^{204}Bi ε decay (J ^π =6 ⁺).
1351.23 4	2 ⁺	65 ps 20	C	IJKLM P	
1563.42 6	4 ⁺		BC	I KLM OP	
1582.7 7	0 ⁺			L OP	
1582.78 5	2 ⁺		C	I L OP	
1604.82 7	3 ⁺		C	I	
1665.27 7	2 ⁺		C	I KLM P	
1681.19 8	1(+)			I	
1712.25 6	(3 ⁺)	<20 ps		I	
1729.99 12	0 ⁺			I OP	
1761.10 6	2 ⁺			I	
1817.54 5	4 ⁺		C	I LM P	
1872.11 10	1			I KL	
1933.29 8	1			I	
1948.34 6	3 ⁺		C	I K	
1960.39 7	(2) ⁺			I P	
2065.33 7	5 ⁺		C	I	
2105.50 6	2 ⁺			I P	
2158.02 8	(4 ⁺)		C	I L P	
2185.88 8	9 ⁻		BC EF	I LM P S	
2201.93 11	(2,3,4 ⁺)			I	
2238.47? 16	5,6		C		
2258.15 5	5 ⁻		C	I L P	

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Adopted Levels, Gammas (continued) ^{204}Pb Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF		Comments
2264.42 6	7 ⁻	0.45 μs +10-3	C	P	XREF: P(2257?). J ^π : 78.54γ E2 to 9 ⁻ ; 990.4γ E3 to 4 ⁺ . T _{1/2} : from ^{204}Bi ε decay (1978So02). Possible configuration=ν[(p _{1/2}) ⁻¹ (i _{13/2}) ⁻¹].
2269.01 10	1,2 ⁺			I M	J ^π : 2269.0γ to 0 ⁺ .
2303.92 7	3 ⁺			I	J ^π : 740.4γ (M1+E2) to 4 ⁺ ; 721.2γ M1+E2 to 2 ⁺ .
2311.6 6	1			G	J ^π : 2311.6γ D to 0 ⁺ .
2316.29 6	2 ⁺			I	J ^π : 586.3γ E2 to 0 ⁺ ; 965.1γ (M1+E2) to 2 ⁺ .
2338.44 6	(4) ⁻		C	I	J ^π : 80.15γ M1(+E2) to 5 ⁻ and 1064.32γ E1+M2 to 4 ⁺ implies J ^π =4 ⁻ ,5 ⁻ ; however, a 5 ⁻ assignment requires δ(1064.32)=0.3, which is ruled out by α(K)exp in ^{204}Bi ε decay.
2386.19 9	5 ⁺		C	I	J ^π : 822.9γ M1+E2 (ΔJ=1) to 4 ⁺ ; 1780.33γ from the 5 ⁻ level at 4166 keV.
2400.34 7	1 ⁺ ,2 ⁺ ,3 ⁺			I	J ^π : 1501.1γ M1+E2 to 2 ⁺ .
2405.27 7	7 ⁻		C		XREF: P(2399). J ^π : 219.41γ E2 to 9 ⁻ ; 147.36γ to 5 ⁻ ; L=(7) in (p,t).
2408.97 11	3			I	J ^π : 1509.8γ D+Q to 2 ⁺ .
2432.99 13	0 ⁺			I OP	XREF: P(2430). J ^π : E0 to 0 ⁺ .
2434.24 6	6 ⁻		C		J ^π : 169.83γ M1+E2 to 7 ⁻ ; 176.09γ M1(+E2) to 5 ⁻ ; 368.30γ to 5 ⁺ .
2475.37 11	1,2,3,4 ⁺			I	J ^π : 1576.1γ to 2 ⁺ .
2480.43 7	6 ⁻		C		J ^π : 222.15γ M1 to 5 ⁻ ; 216.11γ M1(+E2) to 7 ⁻ .
2491.25 7	3 ⁺		C	I	XREF: P(2500). J ^π : 1139.82- and 1592.5-keV M1+E2's to 2 ⁺ ; γ(θ) in (n,n'γ) rules out 1 ⁺ ,2 ⁺ .
2507.16 6	5 ⁻		C	L P	XREF: P(2505). J ^π : L=5 in (p,t); 248.95γ M1(+E2) to 5 ⁻ ; 168.4γ (M1) to 4 ⁻ .
2513.75? 16	(4)		C		J ^π : weak direct population in ^{204}Bi ε decay (J ^π =6 ⁺).
2524.90 8	(1,2,3)			I	J ^π : 1173.7γ and 1625.7γ to 2 ⁺ . Iγ(1173.7γ) and Iγ(1625.7γ) consistent with the two transitions being dipoles.
2546.97 11				I	
2549.76 8	2 ⁺ ,3			I	J ^π : 1650.6γ D(+Q) to 2 ⁺ ; 1275.6γ to 4 ⁺ .
2591.50 8	1,2,3			I	J ^π : 1692.3γ D(+Q) to 2 ⁺ .
2620.60 8	3 ⁻			HIJKLMN P	B(E3)↑=0.66 4 XREF: K(2630)L(2618)M(2617). J ^π : L=3 in (p,t), (d,d'), (α,α'). β ₃ =0.0878 I4 (1976Gi10) and 0.121 (1994Hi01). B(E3): from 1978Sp08 in Coul. ex.
2627.47 10	(5 ⁺)		C	I	J ^π : 1353.3γ (M1) to 4 ⁺ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
2654.67 11	1,2 ⁺ ,3			I p	XREF: p(2660?). J ^π : 1755.5γ D(+Q) to 2 ⁺ ; ΔJ=0 E1 ruled out by 1755.5γ(θ) in (n,n'γ).
2666.20 8	2 ⁺			I p	XREF: p(2660?). J ^π : 2666.2γ E2 to 0 ⁺ .
2696.71 10	7 ⁻		C		J ^π : 291.36γ M1+E2 to 7 ⁻ , 510.67γ to 9 ⁻ , 438.46γ to 5 ⁻ .
2719.33 9	5 ⁺		C	I	J ^π : 1155.9γ M1+E2 to 4 ⁺ ; 1155.9γ(θ) in (n,n'γ) favors ΔJ=1 transition; direct population in ^{204}Bi ε decay (J ^π =6 ⁺).
2731.92 18	5 ⁻ ,6 ⁻ ,7 ⁻		C		J ^π : 251.70γ M1 to 6 ⁻ .
2732.03 11	1,2,3			I	J ^π : 1380.8γ D(+Q) to 2 ⁺ .

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Adopted Levels, Gammas (continued) ^{204}Pb Levels (continued)

E(level) [†]	J ^π	XREF	Comments
2766.94 11 2808 3	(2 ⁺ ,3,4) 6 ⁺	I LM P	J ^π : 1492.8γ to 4 ⁺ ; the lack of direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺). XREF: L(2804)M(2810). J ^π : L=6 in (p,t). Proposed dominant configuration= $\nu[(f_{5/2})^{-1}(f_{7/2})^{-1}](v^{-2})_{0+}$.
2829 3		P	
2861.63? 18 2887.18 11	(5 ⁻ ,6,7) 2,3	C C I L	J ^π : 164.92γ to 7 ⁻ ; direct population in ^{204}Bi ε decay (J ^π =6 ⁺). XREF: L(2884). J ^π : 1988.0γ D(+Q) to 2 ⁺ .
2890.03? 16 2897 3	(5 ⁻ ,6 ⁻) 4 ⁺	C L P	J ^π : 631.88γ (M1+E2) to 5 ⁻ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺). J ^π : L=4 in (p,t).
2912.98 9 2919.68 6 2927.72 9 2928.89 6	5 ⁻ 5 ⁻ (5,6,7) ⁻ 5 ⁻	C C C C	J ^π : 1095.08γ E1+M2 to 4 ⁺ , 405.82γ (M1) to 5 ⁻ ; 1181.3γ M1(+E2) from 6 ⁻ . J ^π : 1102.16γ and 1645.60γ E1(+M2)'s to 4 ⁺ ; 514.4γ (E2) to 7 ⁻ . J ^π : 663.43γ (M1,E2) to 7 ⁻ . J ^π : 1111.35γ and 1654.79γ E1(+M2)'s to 4 ⁺ levels; strong population in ^{204}Bi ε decay (J ^π =6 ⁺) favors 5 ⁻ .
2941.9? 3 2945.58 18 3023.45 9 3029.28 6 ≈3050	(4 ⁻ ,5 ⁻ ,6 ⁻) 10 ⁻ $\frac{3}{2}$ (5,6) ⁻ 5 ⁻	C F C C M	J ^π : 683.39γ (M1) to 5 ⁻ . Proposed configuration= $\nu[(p_{1/2})^{-1}(f_{5/2})^{-2}(i_{13/2})^{-1}]$. J ^π : 765.37γ (M1) to 5 ⁻ , 617.80γ to 7 ⁻ . J ^π : 1211.72γ and 1755.28γ E1(+M2)'s to 4 ⁺ ; 522.22γ M1 to 6 ⁻ .
3092.25 5 3105.29 7 3147 3 3170.37 7	5 ⁻ 6 ⁻ (2) ⁺ 5 ⁻	C C P C m	J ^π : 1274.76γ and 1818.10γ E1's to 4 ⁺ ; 827.62γ to 7 ⁻ . J ^π : 847.19γ M1+E2 to 5 ⁻ ; 841.10-keV M1(+E2) to 7 ⁻ . J ^π : L=2 in (p,t). XREF: m(3180).
3191.68 18	11 ⁻ $\frac{3}{2}$	EF m S	J ^π : 1896.27γ E1(+M2) to 4 ⁺ ; 736.07γ M1(+E2) to 6 ⁻ . XREF: m(3180).
3198.60? 16 3215.36 8 3226 3 3232.27 8	5 ⁻ ,6,7 ⁻ 5 ⁺ (2) ⁺ 5 ⁻	C C P C	J ^π : 246.2γ M1+E2 to 10 ⁻ ; 1005.7γ E2 to 9 ⁻ . Proposed configuration= $\nu[(p_{1/2})^{-1}(f_{5/2})^{-2}(i_{13/2})^{-1}]$. J ^π : 934.13γ to 7 ⁻ ; 941.0γ to 5 ⁻ . J ^π : 1652.10γ M1(+E2) to 4 ⁺ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺). J ^π : L=2 in (p,t).
3301.73 9 3377.4 7 3397.62 7 3420 30 3425.2? 3 ≈3450	5 ⁻ 1 6 ⁻ (3) ⁻ 5 ⁻ ,6 ⁻ (10) ⁺	C G C P C P	J ^π : 1414.74γ E1(+M2) to 4 ⁺ ; 725.15γ M1+E2 to 5 ⁻ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺). J ^π : 1043.63γ M1(+E2) to 5 ⁻ ; 821.13γ (M1) to 6 ⁻ ; 1037.34γ (E2) to 7 ⁻ . J ^π : 3377.4γ D to 0 ⁺ . J ^π : 1139.82γ M1 to 5 ⁻ ; 1133.03γ M1(+E2) to 7 ⁻ . J ^π : L=3 in (p,t). J ^π : 1167.01γ (M1+E2) to 5 ⁻ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺). J ^π : L=10 in (p,t).
3516.4 3 ≈3570.5	12 ⁺ $\frac{3}{2}$	EF M P S LM	Proposed configuration= $\nu[(i_{13/2})^{-2}](v^{-2})_{0+}$. XREF: M(3500?)P(3510). J ^π : 324.7γ E1(+M2) to 11 ⁻ . Proposed configuration= $\nu[(i_{13/2})^{-2}](v^{-2})_{0+}$. XREF: L(3561?)M(3580?).
3638.05 6 3656.3 3 ≈3719 3733.40? 10 3768.67 7 3782.28 8	6 ⁻ 1 6 ⁻ ,7 ⁻ 5 ⁻ ,6 ⁻ 5 ⁻	C G C C C	E(level): average of 3561 keV in (d,d') and 3580 keV in (α,α'); these may be different levels. J ^π : 718.41γ M1(+E2) to 5 ⁻ ; 1232.91γ M1(+E2)'s to 7 ⁻ ; 1573.0 E1+M2 to 5 ⁺ . J ^π : 3656.3γ D to 0 ⁺ . XREF: M(3740?). J ^π : 1299.1γ M1(+E2) to 6 ⁻ ; 1328.21γ M1(+E2) to 7 ⁻ . J ^π : 1703.27γ E1(+M2) to 5 ⁺ , 1334.50-keV M1 to 6 ⁻ . XREF: L(3778).

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Adopted Levels, Gammas (continued) ^{204}Pb Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF		Comments
3810 30	(2) ⁺		M	P	J ^π : 1964.82γ E1 to 4 ⁺ ; 1348.4γ M1(+E2) to 6 ⁻ . XREF: M(3820). E(level): from (p,t); two nearby levels were observed in (d,d') at 3799 and 3824 keV, but it is not clear which, if either, corresponds to this level. J ^π : L=2 in (p,t).
3842.8? 5	(5,6 ⁺)		C		J ^π : 2279.4γ to 4 ⁺ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
3876.53? 23	(5 ⁻ ,6 ⁺)		C		J ^π : 1612.15γ to 7 ⁻ ; 2312.9γ to 4 ⁺ .
3891.76? 12	5 ⁻ ,6 ⁻		C		J ^π : 1826.42γ E1(+M2) to 5 ⁺ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
3893.2 6	2 ⁺	17 fs 3	G		J ^π : 3893.2γ E2 to 0 ⁺ . T _{1/2} : from B(E2)↑=0.018 3 in (γ,γ').
3949 4	(6) ⁺		LM	P	XREF: L(3951)M(3970?). J ^π : L=6 in (p,t).
3996.33 19	(5,6 ⁺)		C	l	XREF: l(4004). J ^π : 2433.3γ and 2721.2γ to 4 ⁺ levels; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
3997.89? 14	(5,6,7) ⁻		C	l	XREF: l(4004). J ^π : 1517.46γ M1(+E2) to 6 ⁻ levels; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4032.83? 23	(5,6 ⁺)		C	m	XREF: m(4030). J ^π : 2758.8γ to 4 ⁺ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4039.2? 4	(5,6 ⁺)		C	m	XREF: m(4030). J ^π : 2475.6γ and 2765.3γ to 4 ⁺ levels; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4068.09 16	(5 ⁻ ,6 ⁺)		C		J ^π : 2250.28γ and 2794.4γ to 4 ⁺ levels, 1803.95γ to 7 ⁻ .
4076.37 13	(5) ⁻		C		J ^π : 1569.3γ M1(+E2) to 5 ⁻ ; 971.21γ to 6 ⁻ ; 2802.1γ to 4 ⁺ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4081.05 9	(5,6 ⁺)		C		J ^π : 2263.38γ and 2517.74γ to 4 ⁺ levels; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4094.43 9	6 ⁻		C	p	XREF: p(4100). J ^π : 1836.6γ M1(+E2) to 5 ⁻ ; 1689.05γ M1(+E2) to 7 ⁻ ; L=7 in (p,t) for 4100 keV 30 level.
4111.47 10	(5) ⁻		C	p	XREF: p(4100). J ^π : 473.40γ M1(+E2) to 6 ⁻ , 2837.33γ to 4 ⁺ ; L=7 in (p,t) for 4100 keV 30 level.
4115.21 14	6 ⁻		C	p	XREF: p(4100). J ^π : 1856.92γ M1(+E2) to 5 ⁻ ; 1850.65γ M1(+E2) to 7 ⁻ ; L=7 in (p,t) for 4100 keV 30 level.
4129.57 11	(5,6)		C	M	XREF: M(4120?). J ^π : 2566.14γ to 4 ⁺ levels; 1791.17γ to 4 ⁻ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4134.8 4	14 ⁺ [‡]		EF	S	J ^π : 618.4γ E2 to 12 ⁺ . Proposed configuration= $\nu[(p_{1/2})^{-1}(f_{5/2})^{-1}(i_{13/2})^{-2}]$.
4140				K	
4166.03 9	5 ⁻		C		J ^π : 1731.68γ M1(+E2) to 6 ⁻ , 1761.0γ E2 to 7 ⁻ .
4172.44? 14	(5,6 ⁺)		C		J ^π : 2898.0γ to 4 ⁺ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4184.02 7	6 ⁻		C		J ^π : 1092.1γ M1(+E2) to 5 ⁻ , 1778.45γ M1(+E2) to 7 ⁻ .
4190				K	
4229.81? 20	(5,6)		C		J ^π : 2955.6γ to 4 ⁺ , 1891.37γ to 4 ⁻ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4244.01? 16	(5,6 ⁺)		C		J ^π : 2680.9γ to 4 ⁺ ; direct feeding in ^{204}Bi ε decay (J ^π =6 ⁺).
4250.24 11	(5,6 ⁺)		C	M	XREF: M(4270?). J ^π : 2686.82γ and 2976.9γ to 4 ⁺ levels; direct feeding in ^{204}Bi ε

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Adopted Levels, Gammas (continued) ^{204}Pb Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF		Comments
4286.12 14 4290	6 ⁻		C	K	decay (J ^π =6 ⁺). J ^π : 1589.42γ M1(+E2) to 7 ⁻ ; 2028.1γ E2(+M1) to 5 ⁻ .
4302.0 4	15 ⁺ [‡]		EF	S	J ^π : 167.2γ M1(+E2) to 14 ⁺ . Proposed configuration= $\nu[(p_{1/2})^{-1}(f_{5/2})^{-1}(i_{13/2})^{-2}]$.
4340 4379.05 20	2 ⁺	4.0 fs 4	G	M	XREF: M(4400?). J ^π : 4379.0γ E2 to 0 ⁺ . T _{1/2} : From B(E2)↑=0.044 5 in (γ,γ').
4460 4530				K	
4596.2 8	1		G	K	J ^π : 4569.1γ D to 0 ⁺ .
4620 4650				K	
4853 10	(11) ⁻			P	J ^π : L=11 in (p,t). Proposed configuration= $\nu[(i_{13/2})^{-1}(h_{9/2})^{-1}](\gamma^{-2})_{0+}$.
4887.7 4	16 ⁺ [‡]		F	S	J ^π : 585.7γ M1+E2 to 15 ⁺ ; 752.9γ E2 to 14 ⁺ . Proposed configuration= $\nu[(f_{5/2})^{-2}(i_{13/2})^{-2}]$.
4922.1 3	1		G		J ^π : 4922.0γ D to 0 ⁺ .
4933.2 3	1		G		J ^π : 4933.1γ D to 0 ⁺ .
4980.37 20	1		G		J ^π : 4980.3γ D to 0 ⁺ .
5000 30	(6) ⁺			P	J ^π : L=6 in (p,t).
5012.0 3	1		G		J ^π : 5011.9γ D to 0 ⁺ .
5100 30	(9) ⁻			P	J ^π : L=9 in (p,t).
5283.2 5	(1,2 ⁺)		G		J ^π : 5283.1γ to 0 ⁺ .
5348.7 4	16 ⁺ [‡]		EF	S	J ^π : 1046.7γ M1(+E2) to 15 ⁺ ; 1214.0γ E2(+M3) to 14 ⁺ . Proposed configuration= $\nu[(f_{5/2})^{-1}(p_{3/2})^{-1}(i_{13/2})^{-2}]$.
5365.9 6	(1,2 ⁺)		G		J ^π : 5365.8γ to 0 ⁺ .
5398.8 5	1		G		J ^π : 5398.7γ D to 0 ⁺ .
5520 30	(9) ⁻			P	J ^π : L=9 in (p,t).
5610.3 9	(1,2 ⁺)		G		J ^π : 5610.2γ to 0 ⁺ .
5664.5 4	17 ⁻ [‡]		EF	S	J ^π : 315.9γ E1 to 16 ⁺ . Proposed configuration= $\nu[(p_{1/2})^{-1}(i_{13/2})^{-3}]$.
5675.0 12	(1,2 ⁺)		G		J ^π : 5674.9γ to 0 ⁺ .
5776.7 4	1		G		J ^π : 5776.6γ D to 0 ⁺ .
5795.6 6	1		G		J ^π : 5795.5γ D to 0 ⁺ .
5811.4 5	1		G		J ^π : 4912.1γ to 2 ⁺ ; 5811.3γ D to 0 ⁺ .
5828.4 3	1		G		J ^π : 5828.3γ D to 0 ⁺ .
5838.5 4	1		G		J ^π : 5838.4γ D to 0 ⁺ .
5877.9 6	(1,2 ⁺)		G		J ^π : 5877.8γ to 0 ⁺ .
5890.7 5	(1,2 ⁺)		G		J ^π : 5890.6γ to 0 ⁺ .
5910 30	(9) ⁻			P	J ^π : L=9 in (p,t).
5943.9 8	(1,2 ⁺)		G		J ^π : 5044.6γ to 2 ⁺ ; 5943.8γ to 0 ⁺ .
5967.7 5	1		G		J ^π : 5967.6γ D to 0 ⁺ .
5981.3 3	1		G		J ^π : 5981.2γ D to 0 ⁺ .
5998.4 8	(1,2 ⁺)		G		J ^π : 5998.3γ to 0 ⁺ .
6008.8 7	1		G		J ^π : 6008.7γ D to 0 ⁺ .
6020.2 6	1		G		J ^π : 6020.1γ D to 0 ⁺ .
6054.1 15	1		G		J ^π : 6054.0γ D to 0 ⁺ .
6066.9 8	1		G		J ^π : 6066.8γ D to 0 ⁺ .
6073.0 5	17 ⁺ [‡]		F		J ^π : 1185.3γ D to 16 ⁺ . Proposed configuration= $\nu[(f_{5/2})^{-1}(i_{13/2})^{-3}]$.
6074.3 11	1		G		J ^π : 6074.2γ D to 0 ⁺ .
6084.5 8	(1,2 ⁺)		G		J ^π : 6084.4γ to 0 ⁺ .

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) ^{204}Pb Levels (continued)

E(level) [†]	J ^π	XREF	Comments
6098.2 5	19 ^{-‡}	EF	S XREF: E(6094.1). J ^π : 433.7γ E2 to 17 ⁻ . Proposed configuration= $\nu[(f_{5/2})^{-1}(i_{13/2})^{-3}]$. J ^π : 5205.8γ to 2 ⁺ ; 6105.0γ to 0 ⁺ .
6105.0 9	(1,2 ⁺)	G	J ^π : 6148.3γ D to 0 ⁺ .
6148.4 5	1	G	J ^π : 6161.2γ to 0 ⁺ .
6161.3 6	(1,2 ⁺)	G	J ^π : 6194.4γ D to 0 ⁺ .
6194.5 8	1	G	J ^π : 6210.0γ to 0 ⁺ .
6210.1 6	(1,2 ⁺)	G	J ^π : 6229.1γ to 0 ⁺ .
6229.2 20	(1,2 ⁺)	G	J ^π : 6254.3γ D to 0 ⁺ .
6254.4 6	1	G	J ^π : 6277.0γ D to 0 ⁺ .
6277.1 9	1	G	J ^π : 6322.9γ D to 0 ⁺ .
6323.0 5	1	G	J ^π : 6410.9γ D to 0 ⁺ .
6410.9? 6	1	G	J ^π : 6419.6γ to 0 ⁺ .
6419.6? II	(1,2 ⁺)	G	J ^π : 6456.9γ to 0 ⁺ .
6457.0 9	(1,2 ⁺)	G	J ^π : 6469.3γ to 0 ⁺ .
6469.3? 7	(1,2 ⁺)	G	J ^π : 1304.1γ D+Q to 19 ⁻ . Proposed configuration= $\pi[(h_{9/2})(h_{11/2})^{-1}]\nu[(p_{1/2})^{-2}(i_{13/2})^{-2}]$.
7402.3 5	(20) [‡]	F	S J ^π : 447.1γ D+Q to (20). Proposed configuration= $\pi[(h_{9/2})(h_{11/2})^{-1}]\nu[(p_{1/2})^{-2}(i_{13/2})^{-2}]$.
7849.4 6	(21) [‡]	F	J ^π : 276.7γ D+Q to 21. Proposed configuration= $\pi[(h_{9/2})(h_{11/2})^{-1}]\nu[(p_{1/2})^{-1}(f_{5/2})^{-1}(i_{13/2})^{-2}]$.
8126.1 6	(22) [‡]	F	

[†] From a least-squares fit to Eγ, except as noted.[‡] From ($\alpha,4n\gamma$) based on $\gamma(\theta)$ and mult.

Adopted Levels, Gammas (continued)

E _i (level)	J _i ^π	γ(²⁰⁴ Pb)							Comments
		E _γ [‡]	I _γ ^{‡#}	E _f	J _f ^π	Mult. [‡]	δ [‡]	α [†]	
899.165	2 ⁺	899.15 3	100	0.0	0 ⁺	E2		0.00821 12	B(E2)(W.u.)=4.69 5 α(K)=0.00647 9; α(L)=0.001323 19; α(M)=0.000317 5; α(N+..)=9.73×10 ⁻⁵ 14 α(N)=8.02×10 ⁻⁵ 12; α(O)=1.562×10 ⁻⁵ 22; α(P)=1.473×10 ⁻⁶ 21
1274.13	4 ⁺	374.76 7	100 16	899.165 2 ⁺	E2			0.0613	B(E2)(W.u.)=0.00382 9 α(K)=0.0390 6; α(L)=0.01681 24; α(M)=0.00426 6; α(N+..)=0.001291 18 α(N)=0.001077 15; α(O)=0.000200 3; α(P)=1.370×10 ⁻⁵ 20
		1274	0.013 3	0.0 0 ⁺	[E4]			0.01771	B(E4)(W.u.)=2.3 6 α(K)=0.01288 18; α(L)=0.00365 6; α(M)=0.000905 13; α(N+..)=0.000279 4 α(N)=0.000230 4; α(O)=4.45×10 ⁻⁵ 7; α(P)=4.08×10 ⁻⁶ 6 E _γ ,I _γ : from ²⁰⁴ Pb IT decay.
1351.23	2 ⁺	452.0 [@] 1	≈28 [@]	899.165 2 ⁺	M1+E2 [@]		+0.80 [@] 12	0.101 8	α(K)=0.081 7; α(L)=0.0154 9; α(M)=0.00366 18; α(N+..)=0.00113 6 α(N)=0.00093 5; α(O)=0.000183 10; α(P)=1.82×10 ⁻⁵ 13
		1351.2 [@] 1	100 [@]	0.0 0 ⁺	E2 [@]			0.00378 6	α(K)=0.00305 5; α(L)=0.000536 8; α(M)=0.0001259 18; α(N+..)=6.37×10 ⁻⁵ 9 α(N)=3.19×10 ⁻⁵ 5; α(O)=6.29×10 ⁻⁶ 9; α(P)=6.36×10 ⁻⁷ 9; α(IPF)=2.48×10 ⁻⁵ 4
1563.42	4 ⁺	289.30 5	100 20	1274.13 4 ⁺	M1+E2		+0.09 2	0.468	α(K)=0.383 6; α(L)=0.0656 10; α(M)=0.01537 22; α(N+..)=0.00477 7 α(N)=0.00391 6; α(O)=0.000778 11; α(P)=8.31×10 ⁻⁵ 12 δ: from (n,n'γ).
1582.7	0 ⁺	663.43 ^b 15 683.5 10	0.88 88 100	899.165 2 ⁺ 899.165 2 ⁺	[E2]			0.01446	E _γ : from ²⁰⁴ Pb IT decay. α(K)=0.01098 16; α(L)=0.00264 4; α(M)=0.000642 10; α(N+..)=0.000197 3 α(N)=0.0001627 24; α(O)=3.13×10 ⁻⁵ 5; α(P)=2.74×10 ⁻⁶ 4 B(E2)(W.u.)=0.81 25 E _γ : from (p,2nγ). E _γ : From (p,2nγ). Mult.: ce(K)(1582.7)/ce(K)(683.5)>14 (1989Tr14).
1582.78	2 ⁺	683.6 [@] 1	100 [@]	899.165 2 ⁺	M1+E2 [@]		-0.18 [@] 2	0.0465	α(K)=0.0381 6; α(L)=0.00639 10; α(M)=0.001492 22; α(N+..)=0.000463 7 α(N)=0.000379 6; α(O)=7.56×10 ⁻⁵ 11; α(P)=8.09×10 ⁻⁶ 12
		1582.8 [@] 1	≈3 [@]	0.0 0 ⁺	E2 [@]			0.00289 4	α(K)=0.00229 4; α(L)=0.000388 6; α(M)=9.07×10 ⁻⁵ 13; α(N+..)=0.0001191 17 α(N)=2.30×10 ⁻⁵ 4; α(O)=4.55×10 ⁻⁶ 7; α(P)=4.67×10 ⁻⁷ 7; α(IPF)=9.11×10 ⁻⁵ 13

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
1604.82	3 ⁺	330.6 1	100 21	1274.13	4 ⁺	M1(+E2)	$\approx +0.1$	≈ 0.325	$\alpha(\text{K})\approx 0.266$; $\alpha(\text{L})\approx 0.0454$; $\alpha(\text{M})\approx 0.01064$; $\alpha(\text{N}+..)\approx 0.00330$ $\alpha(\text{N})\approx 0.00270$; $\alpha(\text{O})\approx 0.000539$; $\alpha(\text{P})\approx 5.75\times 10^{-5}$ $E_\gamma, \text{Mult.}, \delta$: from (n,n' γ). $\alpha(\text{K})=0.0338$ 8; $\alpha(\text{L})=0.00569$ 11; $\alpha(\text{M})=0.00133$ 3; $\alpha(\text{N}+..)=0.000413$ 8 $\alpha(\text{N})=0.000338$ 7; $\alpha(\text{O})=6.74\times 10^{-5}$ 13; $\alpha(\text{P})=7.19\times 10^{-6}$ 15 $E_\gamma, \text{Mult.}, \delta$: from (n,n' γ).
		705.7 1	53 6	899.165	2 ⁺	M1+E2	+0.30 4	0.0412 9	
1665.27	2 ⁺	766.1 @ 1	100 @	899.165	2 ⁺	M1(+E2) @	+0.11 @ 4	0.0350 6	$\alpha(\text{K})=0.0288$ 5; $\alpha(\text{L})=0.00479$ 8; $\alpha(\text{M})=0.001119$ 17; $\alpha(\text{N}+..)=0.000347$ 6 $\alpha(\text{N})=0.000284$ 5; $\alpha(\text{O})=5.67\times 10^{-5}$ 9; $\alpha(\text{P})=6.09\times 10^{-6}$ 10 $\alpha(\text{K})=0.00209$ 3; $\alpha(\text{L})=0.000350$ 5; $\alpha(\text{M})=8.18\times 10^{-5}$ 12; $\alpha(\text{N}+..)=0.0001469$ 21 $\alpha(\text{N})=2.07\times 10^{-5}$ 3; $\alpha(\text{O})=4.10\times 10^{-6}$ 6; $\alpha(\text{P})=4.24\times 10^{-7}$ 6; $\alpha(\text{IPF})=0.0001216$ 17 δ : +0.1 or +3.7 in (n,n' γ).
		1665.3 @ 1	≈ 96 @	0.0	0 ⁺	E2 @		0.00267 4	
1681.19	1 ⁽⁺⁾	782.0 @ 1	≈ 92 @	899.165	2 ⁺	D+Q @			
		1681.2 @ 1	100 @	0.0	0 ⁺	D @			
1712.25	(3 ⁺)	361.1 @ 1	100 @	1351.23	2 ⁺	D(+Q) @			
		438.0 @ 1	≈ 21 @	1274.13	4 ⁺				
		813.1 @ 1	≈ 17 @	899.165	2 ⁺	D(+Q) @			
1729.99	0 ⁺	1730 1		0.0	0 ⁺	E0			$E_\gamma, \text{Mult.}$: from (p,2n γ). $\text{ce}(\text{K})(\text{E0})/\text{ce}(\text{K})(\text{E2}) > 5$ (1986Ka07).
1761.10	2 ⁺	409.9 @ 1	≈ 13 @	1351.23	2 ⁺				
		861.9 @ 1	100 @	899.165	2 ⁺	M1+E2 @	+1.4 @ 4	0.015 3	$\alpha(\text{K})=0.0119$ 24; $\alpha(\text{L})=0.0022$ 4; $\alpha(\text{M})=0.00051$ 8; $\alpha(\text{N}+..)=0.000158$ 25 $\alpha(\text{N})=0.000130$ 20; $\alpha(\text{O})=2.6\times 10^{-5}$ 4; $\alpha(\text{P})=2.6\times 10^{-6}$ 5 $\alpha(\text{K})=0.00189$ 3; $\alpha(\text{L})=0.000313$ 5; $\alpha(\text{M})=7.31\times 10^{-5}$ 11; $\alpha(\text{N}+..)=0.000182$ 3 $\alpha(\text{N})=1.85\times 10^{-5}$ 3; $\alpha(\text{O})=3.67\times 10^{-6}$ 6; $\alpha(\text{P})=3.81\times 10^{-7}$ 6; $\alpha(\text{IPF})=0.0001596$ 23 $\alpha(\text{K})=0.900$ 13; $\alpha(\text{L})=0.1547$ 22; $\alpha(\text{M})=0.0362$ 6; $\alpha(\text{N}+..)=0.01125$ 16 $\alpha(\text{N})=0.00921$ 13; $\alpha(\text{O})=0.00184$ 3; $\alpha(\text{P})=0.000196$ 3 $\alpha(\text{K})=0.0711$ 10; $\alpha(\text{L})=0.01195$ 17; $\alpha(\text{M})=0.00279$ 4; $\alpha(\text{N}+..)=0.000866$ 13 $\alpha(\text{N})=0.000709$ 10; $\alpha(\text{O})=0.0001415$ 20; $\alpha(\text{P})=1.517\times 10^{-5}$ 22
		1761.1 @ 1	≈ 79 @	0.0	0 ⁺	E2 @		0.00246 4	
1817.54	4 ⁺	212.70 15	2.7 5	1604.82	3 ⁺	(M1)		1.103	
		543.27 15	1.25 13	1274.13	4 ⁺	(M1)		0.0867	
		918.26 15	100 7	899.165	2 ⁺	E2		0.00788 11	$\alpha(\text{K})=0.00622$ 9; $\alpha(\text{L})=0.001259$ 18; $\alpha(\text{M})=0.000301$ 5; $\alpha(\text{N}+..)=9.25\times 10^{-5}$ 13

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ‡	$\delta^{\ddagger}$	$\alpha^\ddagger$	Comments
									$\alpha(\text{K})=0.00622$ 9; $\alpha(\text{L})=0.001259$ 18; $\alpha(\text{M})=0.000301$ 5; $\alpha(\text{N}+..)=9.25\times 10^{-5}$ 13 $\alpha(\text{N})=7.62\times 10^{-5}$ 11; $\alpha(\text{O})=1.485\times 10^{-5}$ 21; $\alpha(\text{P})=1.407\times 10^{-6}$ 20
1872.11	1	1872.1 [@] 1	100 [@]	0.0	0 ⁺	D [@]			
1933.29	1	1034.1 [@] 1	≈ 12 [@]	899.165	2 ⁺				
		1933.3 [@] 1	100 [@]	0.0	0 ⁺	D [@]			
1948.34	3 ⁺	365.5 [@] 1	≈ 71 [@]	1582.78	2 ⁺	(M1+E2) [@]		0.16 10	
		597.2 [@] 1	100 [@]	1351.23	2 ⁺	(M1+E2) [@]		0.044 24	
		674.1 [@] 1	≈ 58 [@]	1274.13	4 ⁺	(M1+E2) [@]		0.032 18	
		1049.2 [@] 1	≈ 94 [@]	899.165	2 ⁺	M1+E2 [@]	-2.4 [@] 2	0.00750 25	$\alpha(\text{K})=0.12$ 9; $\alpha(\text{L})=0.027$ 9; $\alpha(\text{M})=0.0064$ 18; $\alpha(\text{N}+..)=0.0020$ 6 $\alpha(\text{N})=0.0016$ 5; $\alpha(\text{O})=0.00032$ 10; $\alpha(\text{P})=2.9\times 10^{-5}$ 15 $\alpha(\text{K})=0.035$ 21; $\alpha(\text{L})=0.007$ 3; $\alpha(\text{M})=0.0016$ 7; $\alpha(\text{N}+..)=0.00048$ 20 $\alpha(\text{N})=0.00039$ 16; $\alpha(\text{O})=8.E-5$ 4; $\alpha(\text{P})=8.E-6$ 4 $\alpha(\text{K})=0.026$ 15; $\alpha(\text{L})=0.0047$ 20; $\alpha(\text{M})=0.0011$ 5; $\alpha(\text{N}+..)=0.00035$ 15 $\alpha(\text{N})=0.00028$ 12; $\alpha(\text{O})=5.6\times 10^{-5}$ 24; $\alpha(\text{P})=6.E-6$ 3 $\alpha(\text{K})=0.00605$ 21; $\alpha(\text{L})=0.00110$ 4; $\alpha(\text{M})=0.000261$ 8; $\alpha(\text{N}+..)=8.05\times 10^{-5}$ 23 $\alpha(\text{N})=6.62\times 10^{-5}$ 19; $\alpha(\text{O})=1.30\times 10^{-5}$ 4; $\alpha(\text{P})=1.31\times 10^{-6}$ 5 δ : 1049.04 25 γ seen in ^{204}Bi ϵ decay has $\delta < 1.0$ (<50% E2 admixture) according to 1984Dz05. This is possibly a different γ .
1960.39	(2) ⁺	377.6 [@] 1	≈ 41 [@]	1582.78	2 ⁺	D+Q [@]			δ : -0.1 or -1.8 in (n,n' γ).
		609.2 [@] 1	≈ 38 [@]	1351.23	2 ⁺				
		1061.2 [@] 1	100 [@]	899.165	2 ⁺	D+Q [@]			δ : -0.2 or +1.6 in (n,n' γ).
2065.33	5 ⁺	501.72 10	25.9 24	1563.42	4 ⁺	M1(+E2)	+0.1 [@] 1	0.106 3	$\alpha(\text{K})=0.0870$ 23; $\alpha(\text{L})=0.0147$ 4; $\alpha(\text{M})=0.00343$ 8; $\alpha(\text{N}+..)=0.001065$ 23 $\alpha(\text{N})=0.000873$ 19; $\alpha(\text{O})=0.000174$ 4; $\alpha(\text{P})=1.86\times 10^{-5}$ 5
		791.20 9	100 7	1274.13	4 ⁺	M1+E2	-1.2 [@] 2	0.0196 20	$\alpha(\text{K})=0.0158$ 17; $\alpha(\text{L})=0.00289$ 24; $\alpha(\text{M})=0.00068$ 6; $\alpha(\text{N}+..)=0.000211$ 18 $\alpha(\text{N})=0.000173$ 14; $\alpha(\text{O})=3.4\times 10^{-5}$ 3; $\alpha(\text{P})=3.5\times 10^{-6}$ 4
2105.50	2 ⁺	754.3 [@] 1	≈ 69 [@]	1351.23	2 ⁺				
		1206.3 [@] 1	≈ 53 [@]	899.165	2 ⁺				
		2105.5 [@] 1	100 [@]	0.0	0 ⁺	E2 [@]		0.00197 3	$\alpha(\text{K})=0.001373$ 20; $\alpha(\text{L})=0.000221$ 3; $\alpha(\text{M})=5.13\times 10^{-5}$ 8; $\alpha(\text{N}+..)=0.000329$ 5 $\alpha(\text{N})=1.301\times 10^{-5}$ 19; $\alpha(\text{O})=2.59\times 10^{-6}$ 4; $\alpha(\text{P})=2.72\times 10^{-7}$ 4; $\alpha(\text{IPF})=0.000313$ 5
2158.02	(4 ⁺)	883.8 [@] 1	≈ 33 [@]	1274.13	4 ⁺				
		1258.9 [@] 1	100 [@]	899.165	2 ⁺				

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ^{$\ddagger$}	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
2185.88	9 ⁻	622.2 2	0.24 4	1563.42	4 ⁺	E5		0.417	$\alpha(\text{K})=0.1596$ 23; $\alpha(\text{L})=0.190$ 3; $\alpha(\text{M})=0.0519$ 8; $\alpha(\text{N}+..)=0.01592$ 23 $\alpha(\text{N})=0.01329$ 19; $\alpha(\text{O})=0.00246$ 4; $\alpha(\text{P})=0.0001725$ 25 $\text{B}(\text{E}5)(\text{W.u.})=0.58$ 11 $E_\gamma, I_\gamma, \text{Mult.}$: from ^{204}Pb IT decay. $\text{B}(\text{E}5)(\text{W.u.})$: The contributions from 119.8 γ and 368.0 γ were not taken into account. Compare to $\text{B}(\text{E}5)(\text{W.u.})=0.51$ 17 in ^{202}Pb .
		911.74 15	100.0 14	1274.13	4 ⁺	E5		0.0958	$\alpha(\text{K})=0.0544$ 8; $\alpha(\text{L})=0.0308$ 5; $\alpha(\text{M})=0.00809$ 12; $\alpha(\text{N}+..)=0.00249$ 4 $\alpha(\text{N})=0.00207$ 3; $\alpha(\text{O})=0.000390$ 6; $\alpha(\text{P})=3.10\times 10^{-5}$ 5 $\text{B}(\text{E}5)(\text{W.u.})=3.63$ 8 $E_\gamma, I_\gamma, \text{Mult.}$: from ^{204}Pb IT decay. $\text{B}(\text{E}5)(\text{W.u.})$: The contributions from 119.8 γ and 368.0 γ were not taken into account. Compare to $\text{B}(\text{E}5)(\text{W.u.})=3.8$ 4 in ^{202}Pb .
2201.93	(2,3,4 ⁺)	850.7 [@] 1	100 [@]	1351.23	2 ⁺				
2238.47?	5,6	964.32 15	100	1274.13	4 ⁺				
2258.15	5 ⁻	440.46 10	4.2 7	1817.54	4 ⁺	E1		0.01251	$\alpha(\text{K})=0.01032$ 15; $\alpha(\text{L})=0.001679$ 24; $\alpha(\text{M})=0.000390$ 6; $\alpha(\text{N}+..)=0.0001197$ 17 $\alpha(\text{N})=9.85\times 10^{-5}$ 14; $\alpha(\text{O})=1.93\times 10^{-5}$ 3; $\alpha(\text{P})=1.87\times 10^{-6}$ 3 I_γ : from (n,n' γ), not seen in ^{204}Bi ε .
		592.5 ^{@b} 1	≈ 3 [@]	1665.27	2 ⁺				
		983.98 3	100 5	1274.13	4 ⁺	E1(+M2)	<0.11	0.0028 3	$\alpha(\text{K})=0.00235$ 21; $\alpha(\text{L})=0.00037$ 4; $\alpha(\text{M})=8.5\times 10^{-5}$ 10; $\alpha(\text{N}+..)=2.6\times 10^{-5}$ 3 $\alpha(\text{N})=2.15\times 10^{-5}$ 24; $\alpha(\text{O})=4.3\times 10^{-6}$ 5; $\alpha(\text{P})=4.4\times 10^{-7}$ 5 $\text{B}(\text{E}2)(\text{W.u.})\approx 0.6$ $\alpha(\text{M})=9.2\times 10^5$ 3; $\alpha(\text{N}+..)=2.72\times 10^5$ 8 $\alpha(\text{N})=2.30\times 10^5$ 7; $\alpha(\text{O})=4.05\times 10^4$ 12; $\alpha(\text{P})=1.19\times 10^3$ 4 $\alpha(\text{L})=13.52$ 20; $\alpha(\text{M})=3.57$ 6; $\alpha(\text{N}+..)=1.066$ 16 $\alpha(\text{N})=0.900$ 14; $\alpha(\text{O})=0.1599$ 24; $\alpha(\text{P})=0.00593$ 9 $\text{B}(\text{E}2)(\text{W.u.})=0.15$ +4-6
2264.42	7 ⁻	(6.26 3)	≈ 0.0004	2258.15	5 ⁻	[E2]		1.19 $\times 10^6$ 4	$\alpha(\text{K})=0.01165$ 17; $\alpha(\text{L})=0.00315$ 5; $\alpha(\text{M})=0.000776$ 11; $\alpha(\text{N}+..)=0.000239$ 4 $\alpha(\text{N})=0.000197$ 3; $\alpha(\text{O})=3.80\times 10^{-5}$ 6; $\alpha(\text{P})=3.43\times 10^{-6}$ 5 $\text{B}(\text{E}3)(\text{W.u.})=0.11$ +3-4
		78.54 8	27 4	2185.88	9 ⁻	E2		18.2	
		990.4 2	100 10	1274.13	4 ⁺	E3		0.01581	
2269.01	1,2 ⁺	2269.0 [@] 1	100 [@]	0.0	0 ⁺				
2303.92	3 ⁺	721.2 [@] 1	100 [@]	1582.78	2 ⁺	M1+E2		0.027 15	$\alpha(\text{K})=0.022$ 12; $\alpha(\text{L})=0.0040$ 17; $\alpha(\text{M})=0.0009$ 4; $\alpha(\text{N}+..)=0.00029$ 12 $\alpha(\text{N})=0.00024$ 10; $\alpha(\text{O})=4.7\times 10^{-5}$ 20; $\alpha(\text{P})=4.8\times 10^{-6}$ 24 Mult.: $A_2=-0.11$ 8 in (n,n' γ).
		740.4 [@] 1	≈ 100 [@]	1563.42	4 ⁺	(M1+E2) [@]		0.025 14	$\alpha(\text{K})=0.021$ 12; $\alpha(\text{L})=0.0037$ 16; $\alpha(\text{M})=0.0009$ 4;

Adopted Levels, Gammas (continued)									
$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
									$\alpha(\text{N}+..)=0.00027$ 12 $\alpha(\text{N})=0.00022$ 9; $\alpha(\text{O})=4.4\times 10^{-5}$ 19; $\alpha(\text{P})=4.5\times 10^{-6}$ 23 Mult.: from (n,n' γ), δ is -0.3 or -15 ; the large quadrupole component favors M1+E2 over E1+M2.
2303.92	3 ⁺	1404.8 [@] 1	$\approx 44^{\text{@}}$	899.165	2 ⁺				
2311.6	1	2311.6 ^{&} 6	100 ^{&}	0.0	0 ⁺	D ^{&}			
2316.29	2 ⁺	586.3 [@] 1	$\approx 78^{\text{@}}$	1729.99	0 ⁺	E2 [@]		0.0203	$\alpha(\text{K})=0.01493$ 21; $\alpha(\text{L})=0.00404$ 6; $\alpha(\text{M})=0.000993$ 14; $\alpha(\text{N}+..)=0.000303$ 5 $\alpha(\text{N})=0.000251$ 4; $\alpha(\text{O})=4.79\times 10^{-5}$ 7; $\alpha(\text{P})=3.99\times 10^{-6}$ 6 $\alpha(\text{K})=0.034$ 20; $\alpha(\text{L})=0.006$ 3; $\alpha(\text{M})=0.0015$ 6; $\alpha(\text{N}+..)=0.00047$ 19 $\alpha(\text{N})=0.00038$ 16; $\alpha(\text{O})=8.\text{E}-5$ 4; $\alpha(\text{P})=8.\text{E}-6$ 4 Mult.: $\delta=-0.3$ or -7 ; the large quadrupole component favors M1+E2 over E1+M2.
		604.0 [@] 1	100 [@]	1712.25	(3 ⁺)	(M1+E2) [@]		0.042 24	
		965.1 [@] 1	$\approx 56^{\text{@}}$	1351.23	2 ⁺	(M1+E2) [@]		0.013 7	$\alpha(\text{K})=0.011$ 6; $\alpha(\text{L})=0.0019$ 8; $\alpha(\text{M})=0.00044$ 18; $\alpha(\text{N}+..)=0.00014$ 6 $\alpha(\text{N})=0.00011$ 5; $\alpha(\text{O})=2.2\times 10^{-5}$ 9; $\alpha(\text{P})=2.3\times 10^{-6}$ 11 Mult.: $\delta=+1.0$ or $+2.5$.
		1417.1 [@] 1 2316.3 [@] 1	$\approx 56^{\text{@}}$ $\approx 31^{\text{@}}$	899.165 0.0	2 ⁺ 0 ⁺	E2 [@]		0.00181 3	$\alpha(\text{K})=0.001157$ 17; $\alpha(\text{L})=0.000184$ 3; $\alpha(\text{M})=4.26\times 10^{-5}$ 6; $\alpha(\text{N}+..)=0.000424$ 6 $\alpha(\text{N})=1.081\times 10^{-5}$ 16; $\alpha(\text{O})=2.15\times 10^{-6}$ 3; $\alpha(\text{P})=2.27\times 10^{-7}$ 4; $\alpha(\text{IPF})=0.000411$ 6 $\alpha(\text{L})=2.87$ 16; $\alpha(\text{M})=0.68$ 5; $\alpha(\text{N}+..)=0.211$ 13 $\alpha(\text{N})=0.174$ 11; $\alpha(\text{O})=0.0340$ 19; $\alpha(\text{P})=0.00328$ 6 $\alpha(\text{K})\approx 0.00293$; $\alpha(\text{L})\approx 0.000481$; $\alpha(\text{M})\approx 0.0001121$ $\alpha(\text{N})\approx 2.84\times 10^{-5}$; $\alpha(\text{O})\approx 5.65\times 10^{-6}$; $\alpha(\text{P})\approx 5.91\times 10^{-7}$
2338.44	(4) ⁻	80.15 7	79 8	2258.15	5 ⁻	M1(+E2)	0.19 4	3.76 21	$\alpha(\text{L})=2.87$ 16; $\alpha(\text{M})=0.68$ 5; $\alpha(\text{N}+..)=0.211$ 13 $\alpha(\text{N})=0.174$ 11; $\alpha(\text{O})=0.0340$ 19; $\alpha(\text{P})=0.00328$ 6 $\alpha(\text{K})\approx 0.00293$; $\alpha(\text{L})\approx 0.000481$; $\alpha(\text{M})\approx 0.0001121$ $\alpha(\text{N})\approx 2.84\times 10^{-5}$; $\alpha(\text{O})\approx 5.65\times 10^{-6}$; $\alpha(\text{P})\approx 5.91\times 10^{-7}$
		1064.32 4	100 13	1274.13	4 ⁺	E1(+M2) [@]	$\approx +0.2^{\text{@}}$	≈ 0.00356	
2386.19	5 ⁺	320.85 15 822.9 1	26 5 100 15	2065.33 1563.42	5 ⁺ 4 ⁺	M1+E2 [@]	+1.5 [@] 5	0.016 4	$\alpha(\text{K})=0.013$ 4; $\alpha(\text{L})=0.0024$ 5; $\alpha(\text{M})=0.00056$ 11; $\alpha(\text{N}+..)=0.00017$ 4 $\alpha(\text{N})=0.00014$ 3; $\alpha(\text{O})=2.8\times 10^{-5}$ 6; $\alpha(\text{P})=2.8\times 10^{-6}$ 7 E_γ : from (n,n' γ).
2400.34	1 ⁺ , 2 ⁺ , 3 ⁺	735.1 [@] 1 817.6 [@] 1 1501.1 [@] 1	$\approx 15^{\text{@}}$ $\approx 11^{\text{@}}$ 100 [@]	1665.27 1582.78 899.165	2 ⁺ 2 ⁺ 2 ⁺	M1+E2 [@]		0.0048 17	$\alpha(\text{K})=0.0039$ 14; $\alpha(\text{L})=0.00064$ 21; $\alpha(\text{M})=0.00015$ 5; $\alpha(\text{N}+..)=0.00013$ 4 $\alpha(\text{N})=3.8\times 10^{-5}$ 13; $\alpha(\text{O})=7.5\times 10^{-6}$ 25; $\alpha(\text{P})=8.\text{E}-7$ 3; $\alpha(\text{IPF})=8.7\times 10^{-5}$ 23

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ‡	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
2405.27	7^-	140.80 10	41 4	2264.42	7^-	M1+E2	1.0 5	2.5 6	$\alpha(\text{K})=1.6$ 8 ; $\alpha(\text{L})=0.70$ 12 ; $\alpha(\text{M})=0.18$ 4 ; $\alpha(\text{N}+..)=0.054$ 11 $\alpha(\text{N})=0.045$ 9 ; $\alpha(\text{O})=0.0083$ 15 ; $\alpha(\text{P})=0.00055$ 5
		147.36 15	5.9 14	2258.15	5^-				
		219.41 9	100 7	2185.88	9^-	E2		0.312	$\alpha(\text{K})=0.1358$ 19 ; $\alpha(\text{L})=0.1314$ 19 ; $\alpha(\text{M})=0.0342$ 5 ; $\alpha(\text{N}+..)=0.01029$ 15 $\alpha(\text{N})=0.00864$ 13 ; $\alpha(\text{O})=0.001567$ 23 ; $\alpha(\text{P})=8.22 \times 10^{-5}$ 12
2408.97	3	1509.8 $^{\textcircled{a}}$ 1	100 $^{\textcircled{a}}$	899.165	2^+	D+Q $^{\textcircled{a}}$	$\approx +0.07$ $^{\textcircled{a}}$		
2432.99	0^+	751.8 $^{\textcircled{a}}$ 1	100 $^{\textcircled{a}}$	1681.19	$1^{(+)}$				
		2433 1		0.0	0^+	E0			$E_\gamma, \text{Mult.}$: from (p,2n γ).
2434.24	6^-	29.0 2	2.8 10	2405.27	7^-				
		169.83 15	25 4	2264.42	7^-	M1+E2	0.5 3	1.81 25	$\alpha(\text{K})=1.4$ 3 ; $\alpha(\text{L})=0.312$ 20 ; $\alpha(\text{M})=0.075$ 7 ; $\alpha(\text{N}+..)=0.0231$ 19 $\alpha(\text{N})=0.0191$ 17 ; $\alpha(\text{O})=0.00370$ 24 ; $\alpha(\text{P})=0.00034$ 3
		176.09 5	100 7	2258.15	5^-	M1(+E2)	<0.6	1.71 16	$\alpha(\text{K})=1.36$ 18 ; $\alpha(\text{L})=0.273$ 11 ; $\alpha(\text{M})=0.065$ 4 ; $\alpha(\text{N}+..)=0.0201$ 10 $\alpha(\text{N})=0.0165$ 9 ; $\alpha(\text{O})=0.00324$ 13 ; $\alpha(\text{P})=0.000315$ 20
2475.37	1,2,3,4 $^+$	368.30 20	44 9	2065.33	5^+				
2480.43	6^-	1576.2 $^{\textcircled{a}}$ 1	100 $^{\textcircled{a}}$	899.165	2^+			1.055	$\alpha(\text{K})=0.861$ 13 ; $\alpha(\text{L})=0.1479$ 21 ; $\alpha(\text{M})=0.0347$ 5 ; $\alpha(\text{N}+..)=0.01076$ 16 $\alpha(\text{N})=0.00881$ 13 ; $\alpha(\text{O})=0.001756$ 25 ; $\alpha(\text{P})=0.000188$ 3
		216.11 15	100 11	2264.42	7^-	M1			$\alpha(\text{K})=0.77$ 3 ; $\alpha(\text{L})=0.1365$ 20 ; $\alpha(\text{M})=0.0321$ 5 ; $\alpha(\text{N}+..)=0.00995$ 14 $\alpha(\text{N})=0.00816$ 12 ; $\alpha(\text{O})=0.001620$ 24 ; $\alpha(\text{P})=0.000170$ 5
		222.15 15	66 7	2258.15	5^-	M1(+E2)	<0.3	0.95 4	$\alpha(\text{K})\approx 0.00921$; $\alpha(\text{L})\approx 0.001531$; $\alpha(\text{M})\approx 0.000357$; $\alpha(\text{N}+..)\approx 0.0001119$ $\alpha(\text{N})\approx 9.07 \times 10^{-5}$; $\alpha(\text{O})\approx 1.81 \times 10^{-5}$; $\alpha(\text{P})\approx 1.93 \times 10^{-6}$; $\alpha(\text{IPF})\approx 1.189 \times 10^{-6}$ I_γ : from (n,n' γ).
2491.25	3^+	1139.82 7	100	1351.23	2^+	M1+E2 $^{\textcircled{a}}$	≈ -0.5 $^{\textcircled{a}}$	≈ 0.01121	$\alpha(\text{K})\approx 0.00337$; $\alpha(\text{L})\approx 0.000556$; $\alpha(\text{M})\approx 0.0001296$ $\alpha(\text{N})\approx 3.29 \times 10^{-5}$; $\alpha(\text{O})\approx 6.55 \times 10^{-6}$; $\alpha(\text{P})\approx 6.95 \times 10^{-7}$; $\alpha(\text{IPF})\approx 0.0001276$
		1592.5 $^{\textcircled{a}}$ 1	≈ 54 $^{\textcircled{a}}$	899.165	2^+	M1+E2 $^{\textcircled{a}}$	≈ -1.0 $^{\textcircled{a}}$	≈ 0.00423	$\alpha(\text{K})=1.73$ 3 ; $\alpha(\text{L})=0.299$ 5 ; $\alpha(\text{M})=0.0700$ 11 ; $\alpha(\text{N}+..)=0.0217$ 4 $\alpha(\text{N})=0.0178$ 3 ; $\alpha(\text{O})=0.00355$ 6 ; $\alpha(\text{P})=0.000379$ 6
2507.16	5^-	168.4 3	6 2	2338.44	(4) $^-$	(M1)		2.12	$\alpha(\text{K})=0.54$ 5 ; $\alpha(\text{L})=0.0979$ 23 ; $\alpha(\text{M})=0.0231$ 5 ; $\alpha(\text{N}+..)=0.00715$ 14 $\alpha(\text{N})=0.00587$ 11 ; $\alpha(\text{O})=0.00116$ 3 ; $\alpha(\text{P})=0.000120$ 7
		248.95 5	100 7	2258.15	5^-	M1(+E2)	<0.45	0.67 5	
2513.75?	(4)	950.33 15	100	1563.42	4^+				
2524.90	(1,2,3)	1173.7 $^{\textcircled{a}}$ 1	≈ 59 $^{\textcircled{a}}$	1351.23	2^+				
		1625.7 $^{\textcircled{a}}$ 1	100 $^{\textcircled{a}}$	899.165	2^+				

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ^{$\ddagger$}	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
2546.97		1647.8 @ 1	100 @	899.165	2 ⁺				
2549.76	2 ⁺ ,3	1275.6 @ 1	100 @	1274.13	4 ⁺				
		1650.6 @ 1	20 @	899.165	2 ⁺	D(+Q) @			
2591.50	1,2,3	1240.3 @ 1	27 @	1351.23	2 ⁺				
		1692.3 @ 1	100 @	899.165	2 ⁺	D(+Q) @			
2620.60	3 ⁻	1057.1 @ 1	≈10 @	1563.42	4 ⁺	D(+Q) @			
		1721.5 @ 1	100 @	899.165	2 ⁺	D+Q @	≈+0.04 @		
2627.47	(5 ⁺)	1353.3 @ 1	100 @	1274.13	4 ⁺	(M1)		0.00825 12	$\alpha(\text{K})=0.00676$ 10; $\alpha(\text{L})=0.001106$ 16; $\alpha(\text{M})=0.000258$ 4; $\alpha(\text{N}+..)=0.0001240$ $\alpha(\text{N})=6.54\times 10^{-5}$ 10; $\alpha(\text{O})=1.307\times 10^{-5}$ 19; $\alpha(\text{P})=1.407\times 10^{-6}$ 20; $\alpha(\text{IPF})=4.41\times 10^{-5}$ 7
2654.67	1,2 ⁺ ,3	1755.5 @ 1	100 @	899.165	2 ⁺	D(+Q) @			
2666.20	2 ⁺	1767.0 @ 1	≈30 @	899.165	2 ⁺				
		2666.2 @ 1	100 @	0.0	0 ⁺	E2 @		0.001653 24	$\alpha(\text{K})=0.000898$ 13; $\alpha(\text{L})=0.0001406$ 20; $\alpha(\text{M})=3.26\times 10^{-5}$ 5; $\alpha(\text{N}+..)=0.000581$ $\alpha(\text{N})=8.25\times 10^{-6}$ 12; $\alpha(\text{O})=1.644\times 10^{-6}$ 23; $\alpha(\text{P})=1.748\times 10^{-7}$ 25; $\alpha(\text{IPF})=0.000571$ 8
2696.71	7 ⁻	216.40 20 291.36 15	38 3 100 12	2480.43 2405.27	6 ⁻ 7 ⁻	M1+E2	0.84	0.323	$\alpha(\text{K})=0.250$ 4; $\alpha(\text{L})=0.0553$ 8; $\alpha(\text{M})=0.01336$ 19; $\alpha(\text{N}+..)=0.00411$ 6 $\alpha(\text{N})=0.00339$ 5; $\alpha(\text{O})=0.000658$ 10; $\alpha(\text{P})=6.06\times 10^{-5}$ 9
		438.46 ^b 15 510.67 15	83 17 45 7	2258.15 2185.88	5 ⁻ 9 ⁻				
2719.33	5 ⁺	1155.9 @ 1	≈43 @	1563.42	4 ⁺	M1+E2 @		0.009 4	$\alpha(\text{K})=0.007$ 3; $\alpha(\text{L})=0.0012$ 5; $\alpha(\text{M})=0.00028$ 11; $\alpha(\text{N}+..)=9.\text{E}-5$ 4 $\alpha(\text{N})=7.\text{E}-5$ 3; $\alpha(\text{O})=1.4\times 10^{-5}$ 6; $\alpha(\text{P})=1.5\times 10^{-6}$ 7; $\alpha(\text{IPF})=1.7\times 10^{-6}$ 5
2731.92	5 ⁻ ,6 ⁻ ,7 ⁻	1445.2 @ 1 251.70 20	100 @ 100	1274.13 2480.43	4 ⁺ 6 ⁻	M1		0.691	$\alpha(\text{K})=0.564$ 8; $\alpha(\text{L})=0.0967$ 14; $\alpha(\text{M})=0.0227$ 4; $\alpha(\text{N}+..)=0.00703$ 10 $\alpha(\text{N})=0.00576$ 9; $\alpha(\text{O})=0.001148$ 17; $\alpha(\text{P})=0.0001227$ 18
2732.03	1,2,3	1380.8 @ 1	100 @	1351.23	2 ⁺	D(+Q) @			
2766.94	(2 ⁺ ,3,4)	1492.8 @ 1	100 @	1274.13	4 ⁺				
2861.63?	(5 ⁻ ,6,7)	164.92 15	100	2696.71	7 ⁻				
2887.18	2,3	1988.0 @ 1	100 @	899.165	2 ⁺	D(+Q) @			
2890.03?	(5 ⁻ ,6 ⁻)	631.88 15	0.10 2	2258.15	5 ⁻	(M1+E2)	<0.8	0.050 8	$\alpha(\text{K})=0.041$ 7; $\alpha(\text{L})=0.0071$ 10; $\alpha(\text{M})=0.00166$ 21;

Adopted Levels, Gammas (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\gamma(^{204}\text{Pb})$ (continued)		Comments
							$\delta^{\ddagger}$	$\alpha^{\ddagger}$	
2912.98	5^-	405.82 ¹⁵	100 ¹³	2507.16 5^-	(M1)			0.188	$\alpha(\text{N}+..)=0.00051$ 7 $\alpha(\text{N})=0.00042$ 6; $\alpha(\text{O})=8.4\times 10^{-5}$ 11; $\alpha(\text{P})=8.8\times 10^{-6}$ 14 $\alpha(\text{K})=0.1541$ 22; $\alpha(\text{L})=0.0261$ 4; $\alpha(\text{M})=0.00611$ 9; $\alpha(\text{N}+..)=0.00190$ 3 $\alpha(\text{N})=0.001553$ 22; $\alpha(\text{O})=0.000310$ 5; $\alpha(\text{P})=3.31\times 10^{-5}$ 5
		432.53 ¹⁵ 654.88 ¹⁵	20 ⁷ 53 ¹⁰	2480.43 6^- 2258.15 5^-	(M1+E2)		<0.8	0.046 ⁸	$\alpha(\text{K})=0.037$ 7; $\alpha(\text{L})=0.0064$ 9; $\alpha(\text{M})=0.00151$ 20; $\alpha(\text{N}+..)=0.00047$ 6 $\alpha(\text{N})=0.00038$ 5; $\alpha(\text{O})=7.6\times 10^{-5}$ 10; $\alpha(\text{P})=8.0\times 10^{-6}$ 13 $\alpha(\text{K})=0.012$ 3; $\alpha(\text{L})=0.0021$ 5; $\alpha(\text{M})=0.00049$ 12; $\alpha(\text{N}+..)=0.00015$ 4
		1095.08 ²⁵	87 ¹³	1817.54 4^+	E1+M2		0.79 ¹⁶	0.014 ⁴	$\alpha(\text{N})=0.00013$ 3; $\alpha(\text{O})=2.5\times 10^{-5}$ 6; $\alpha(\text{P})=2.6\times 10^{-6}$ 6 $\alpha(\text{K})=0.139$ 9; $\alpha(\text{L})=0.0241$ 11; $\alpha(\text{M})=0.00564$ 23; $\alpha(\text{N}+..)=0.00175$ 8
2919.68	5^-	412.30 ¹²	13.7 ¹⁹	2507.16 5^-	M1(+E2)		<0.42	0.170 ¹¹	$\alpha(\text{N})=0.00143$ 6; $\alpha(\text{O})=0.000285$ 13; $\alpha(\text{P})=3.01\times 10^{-5}$ 17 $\alpha(\text{K})=0.0196$ 3; $\alpha(\text{L})=0.00595$ 9; $\alpha(\text{M})=0.001476$ 21; $\alpha(\text{N}+..)=0.000450$ 7
		514.4 ²	11.6 ⁹	2405.27 7^-	(E2)			0.0274	$\alpha(\text{N})=0.000374$ 6; $\alpha(\text{O})=7.08\times 10^{-5}$ 10; $\alpha(\text{P})=5.59\times 10^{-6}$ 8 $\alpha(\text{K})=0.0418$ 10; $\alpha(\text{L})=0.00700$ 14; $\alpha(\text{M})=0.00163$ 4; $\alpha(\text{N}+..)=0.000507$ 10
		661.58 ¹²	100 ⁹	2258.15 5^-	M1(+E2)		<0.22	0.0509 ¹¹	$\alpha(\text{N})=0.000415$ 8; $\alpha(\text{O})=8.28\times 10^{-5}$ 17; $\alpha(\text{P})=8.87\times 10^{-6}$ 19
		971.21 ²⁰ 1102.16 ⁷	10.3 ⁹ 20 ³	1948.34 3^+ 1817.54 4^+	E1(+M2)		<0.24	0.0030 ⁹	$\alpha(\text{K})=0.0024$ 7; $\alpha(\text{L})=0.00039$ 13; $\alpha(\text{M})=9.E-5$ 3; $\alpha(\text{N}+..)=2.9\times 10^{-5}$ 10 $\alpha(\text{N})=2.3\times 10^{-5}$ 8; $\alpha(\text{O})=4.6\times 10^{-6}$ 16; $\alpha(\text{P})=4.8\times 10^{-7}$ 17; $\alpha(\text{IPF})=7.88\times 10^{-7}$ 24
2927.72	$(5,6,7)^-$	1645.60 ⁸	27 ³	1274.13 4^+	E1(+M2)		0.16 ¹²	0.0016 ⁵	$\alpha(\text{K})=0.0011$ 5; $\alpha(\text{L})=0.00017$ 8; $\alpha(\text{M})=3.9\times 10^{-5}$ 18; $\alpha(\text{N}+..)=0.000280$ 6 $\alpha(\text{N})=1.0\times 10^{-5}$ 5; $\alpha(\text{O})=2.0\times 10^{-6}$ 9; $\alpha(\text{P})=2.1\times 10^{-7}$ 10; $\alpha(\text{IPF})=0.000268$ 11
		447.08 ¹⁵ 522.70 ²⁰ 663.43 ¹⁵	100 ¹³ 32 ³ ≈ 83	2480.43 6^- 2405.27 7^- 2264.42 7^-	(E2,M1)			0.033 ¹⁸	$\alpha(\text{K})=0.027$ 16; $\alpha(\text{L})=0.0050$ 21; $\alpha(\text{M})=0.0012$ 5; $\alpha(\text{N}+..)=0.00036$ 15 $\alpha(\text{N})=0.00030$ 12; $\alpha(\text{O})=5.9\times 10^{-5}$ 25; $\alpha(\text{P})=6.E-6$ 3 $\alpha(\text{K})=0.125$ 15; $\alpha(\text{L})=0.0219$ 17; $\alpha(\text{M})=0.0052$ 4; $\alpha(\text{N}+..)=0.00160$ 12
									$\alpha(\text{N})=0.00131$ 10; $\alpha(\text{O})=0.000260$ 20; $\alpha(\text{P})=2.7\times 10^{-5}$ 3 $\alpha(\text{K})=0.036$ 5; $\alpha(\text{L})=0.0062$ 7; $\alpha(\text{M})=0.00146$ 15; $\alpha(\text{N}+..)=0.00045$ 5
2928.89	5^-	421.61 ⁸	9.9 ⁷	2507.16 5^-	M1(+E2)		<0.6	0.153 ¹⁷	$\alpha(\text{N})=0.00037$ 4; $\alpha(\text{O})=7.4\times 10^{-5}$ 8; $\alpha(\text{P})=7.8\times 10^{-6}$ 9
		670.72 ³	100 ⁷	2258.15 5^-	M1(+E2)		<0.66	0.045 ⁶	

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									Comments
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\delta^{\ddagger}$	$\alpha^\dagger$	
2928.89	5 ⁻	1111.35 4	12.9 11	1817.54	4 ⁺	E1(+M2)	<0.14	0.0024 3	$\alpha(\text{K})=0.00197$ 24; $\alpha(\text{L})=0.00031$ 5; $\alpha(\text{M})=7.1\times 10^{-5}$ 11; $\alpha(\text{N}+..)=2.3\times 10^{-5}$ 4 $\alpha(\text{N})=1.8\times 10^{-5}$ 3; $\alpha(\text{O})=3.6\times 10^{-6}$ 6; $\alpha(\text{P})=3.7\times 10^{-7}$ 6; $\alpha(\text{IPF})=1.166\times 10^{-6}$ 20
		1654.79 14	4.9 7	1274.13	4 ⁺	E1(+M2)	<0.25	0.0016 3	$\alpha(\text{K})=0.0011$ 3; $\alpha(\text{L})=0.00017$ 5; $\alpha(\text{M})=4.0\times 10^{-5}$ 11; $\alpha(\text{N}+..)=0.000286$ 5 $\alpha(\text{N})=1.0\times 10^{-5}$ 3; $\alpha(\text{O})=2.0\times 10^{-6}$ 6; $\alpha(\text{P})=2.2\times 10^{-7}$ 6; $\alpha(\text{IPF})=0.000273$ 7
2941.9?	(4 ⁻ ,5 ⁻ ,6 ⁻)	683.39 ^b 15	100	2258.15	5 ⁻	(M1)		0.0475	$\alpha(\text{K})=0.0390$ 6; $\alpha(\text{L})=0.00651$ 10; $\alpha(\text{M})=0.001521$ 22; $\alpha(\text{N}+..)=0.000472$ 7 $\alpha(\text{N})=0.000386$ 6; $\alpha(\text{O})=7.71\times 10^{-5}$ 11; $\alpha(\text{P})=8.27\times 10^{-6}$ 12
2945.58	10 ⁻	759.8 ^a 2	100 ^a	2185.88	9 ⁻	M1+E2 ^a	7 ^a +12-3	0.0121 10	$\alpha(\text{K})=0.0093$ 9; $\alpha(\text{L})=0.00206$ 12; $\alpha(\text{M})=0.00050$ 3; $\alpha(\text{N}+..)=0.000153$ 9 $\alpha(\text{N})=0.000126$ 7; $\alpha(\text{O})=2.44\times 10^{-5}$ 14; $\alpha(\text{P})=2.22\times 10^{-6}$ 17
3023.45	(5,6) ⁻	543.27 15	27 27	2480.43	6 ⁻	M1		0.0867	$\alpha(\text{K})=0.0711$ 10; $\alpha(\text{L})=0.01195$ 17; $\alpha(\text{M})=0.00279$ 4; $\alpha(\text{N}+..)=0.000866$ 13 $\alpha(\text{N})=0.000709$ 10; $\alpha(\text{O})=0.0001415$ 20; $\alpha(\text{P})=1.517\times 10^{-5}$ 22
		617.80 20 765.37 15	59 6 100 13	2405.27 7 ⁻ 2258.15 5 ⁻		(M1)		0.0354	$\alpha(\text{K})=0.0291$ 4; $\alpha(\text{L})=0.00484$ 7; $\alpha(\text{M})=0.001129$ 16; $\alpha(\text{N}+..)=0.000350$ 5 $\alpha(\text{N})=0.000287$ 4; $\alpha(\text{O})=5.73\times 10^{-5}$ 8; $\alpha(\text{P})=6.15\times 10^{-6}$ 9
3029.28	5 ⁻	100.32 10	6.0 5	2928.89	5 ⁻	M1(+E2)	<0.6	8.9 5	$\alpha(\text{K})=6.6$ 10; $\alpha(\text{L})=1.7$ 4; $\alpha(\text{M})=0.42$ 11; $\alpha(\text{N}+..)=0.13$ 4 $\alpha(\text{N})=0.11$ 3; $\alpha(\text{O})=0.020$ 5; $\alpha(\text{P})=0.00171$ 5
		109.1 3 332.20 20 522.22 15	3.9 26 5.0 5 21 3	2919.68 5 ⁻ 2696.71 7 ⁻ 2507.16 5 ⁻		M1		0.0962	$\alpha(\text{K})=0.0789$ 11; $\alpha(\text{L})=0.01327$ 19; $\alpha(\text{M})=0.00310$ 5; $\alpha(\text{N}+..)=0.000962$ 14 $\alpha(\text{N})=0.000788$ 11; $\alpha(\text{O})=0.0001572$ 22; $\alpha(\text{P})=1.685\times 10^{-5}$ 24
		548.74 15	14.7 24	2480.43	6 ⁻	M1(+E2)	<0.56	0.077 8	$\alpha(\text{K})=0.063$ 7; $\alpha(\text{L})=0.0108$ 9; $\alpha(\text{M})=0.00254$ 19; $\alpha(\text{N}+..)=0.00079$ 6 $\alpha(\text{N})=0.00064$ 5; $\alpha(\text{O})=0.000128$ 10; $\alpha(\text{P})=1.36\times 10^{-5}$ 13
		595.13 15 690.74 7	12.4 18 32 3	2434.24 6 ⁻ 2338.44 (4) ⁻		M1+E2	0.6 3	0.038 6	$\alpha(\text{K})=0.031$ 5; $\alpha(\text{L})=0.0053$ 7; $\alpha(\text{M})=0.00125$ 16; $\alpha(\text{N}+..)=0.00039$ 5 $\alpha(\text{N})=0.00032$ 4; $\alpha(\text{O})=6.3\times 10^{-5}$ 9; $\alpha(\text{P})=6.6\times 10^{-6}$ 10
		771.31 15	13.2 21	2258.15	5 ⁻	(E2+M1)	>0.35	0.022 11	$\alpha(\text{K})=0.018$ 9; $\alpha(\text{L})=0.0032$ 13; $\alpha(\text{M})=0.0008$ 3;

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\delta^{\ddagger}$	$\alpha^\ddagger$	Comments
3029.28	5 ⁻	1211.72 5	100 11	1817.54 4 ⁺	E1(+M2)	<0.15		0.0021 3	$\alpha(\text{N}+..)=0.00023$ 9 $\alpha(\text{N})=0.00019$ 8; $\alpha(\text{O})=3.8\times 10^{-5}$ 15; $\alpha(\text{P})=3.8\times 10^{-6}$ 18 $\alpha(\text{K})=0.00170$ 22; $\alpha(\text{L})=0.00026$ 4; $\alpha(\text{M})=6.1\times 10^{-5}$ 10; $\alpha(\text{N}+..)=3.8\times 10^{-5}$ 3 $\alpha(\text{N})=1.54\times 10^{-5}$ 24; $\alpha(\text{O})=3.1\times 10^{-6}$ 5; $\alpha(\text{P})=3.2\times 10^{-7}$ 5; $\alpha(\text{IPF})=1.89\times 10^{-5}$ 4
		1755.28 6	41 4	1274.13 4 ⁺	E1(+M2)	<0.16		0.00141 12	$\alpha(\text{K})=0.00089$ 10; $\alpha(\text{L})=0.000134$ 17; $\alpha(\text{M})=3.1\times 10^{-5}$ 4; $\alpha(\text{N}+..)=0.000359$ 6 $\alpha(\text{N})=7.8\times 10^{-6}$ 10; $\alpha(\text{O})=1.56\times 10^{-6}$ 20; $\alpha(\text{P})=1.65\times 10^{-7}$ 21; $\alpha(\text{IPF})=0.000350$ 6
3092.25	5 ⁻	585.02 15	14.8 22	2507.16 5 ⁻	M1(+E2)	<0.75		0.062 10	$\alpha(\text{K})=0.051$ 8; $\alpha(\text{L})=0.0088$ 11; $\alpha(\text{M})=0.00206$ 24; $\alpha(\text{N}+..)=0.00064$ 8 $\alpha(\text{N})=0.00052$ 6; $\alpha(\text{O})=0.000104$ 13; $\alpha(\text{P})=1.09\times 10^{-5}$ 16
		611.88 15 753.79 12	11.8 19 50 4	2480.43 6 ⁻ 2338.44 (4) ⁻	M1(+E2)	<0.72		0.033 5	$\alpha(\text{K})=0.027$ 4; $\alpha(\text{L})=0.0045$ 6; $\alpha(\text{M})=0.00106$ 12; $\alpha(\text{N}+..)=0.00033$ 4 $\alpha(\text{N})=0.00027$ 3; $\alpha(\text{O})=5.4\times 10^{-5}$ 6; $\alpha(\text{P})=5.7\times 10^{-6}$ 8
		827.62 15 834.16 8	23 4 52 5	2264.42 7 ⁻ 2258.15 5 ⁻	M1(+E2)	<0.6		0.026 3	$\alpha(\text{K})=0.0212$ 22; $\alpha(\text{L})=0.0036$ 3; $\alpha(\text{M})=0.00083$ 7; $\alpha(\text{N}+..)=0.000258$ 22 $\alpha(\text{N})=0.000212$ 18; $\alpha(\text{O})=4.2\times 10^{-5}$ 4; $\alpha(\text{P})=4.5\times 10^{-6}$ 5
		934.13 15 1027.59 25 1274.76 4	13.3 19 3.3 7 100 11	2158.02 (4 ⁺) 2065.33 5 ⁺ 1817.54 4 ⁺	E1(+M2)	<0.16		0.0019 3	$\alpha(\text{K})=0.00158$ 22; $\alpha(\text{L})=0.00024$ 4; $\alpha(\text{M})=5.6\times 10^{-5}$ 10; $\alpha(\text{N}+..)=5.9\times 10^{-5}$ 3 $\alpha(\text{N})=1.43\times 10^{-5}$ 24; $\alpha(\text{O})=2.8\times 10^{-6}$ 5; $\alpha(\text{P})=3.0\times 10^{-7}$ 5; $\alpha(\text{IPF})=4.17\times 10^{-5}$ 8
		1818.10 2	24.1 19	1274.13 4 ⁺	E1			0.001294 19	$\alpha(\text{K})=0.000751$ 11; $\alpha(\text{L})=0.0001112$ 16; $\alpha(\text{M})=2.56\times 10^{-5}$ 4; $\alpha(\text{N}+..)=0.000406$ $\alpha(\text{N})=6.47\times 10^{-6}$ 9; $\alpha(\text{O})=1.289\times 10^{-6}$ 18; $\alpha(\text{P})=1.364\times 10^{-7}$ 19; $\alpha(\text{IPF})=0.000398$ 6
3105.29	6 ⁻	597.83 15	≈22	2507.16 5 ⁻	(M1)			0.0674	$\alpha(\text{N})=0.000550$ 8; $\alpha(\text{O})=0.0001097$ 16; $\alpha(\text{P})=1.177\times 10^{-5}$ 17 $\alpha(\text{K})=0.019$ 4; $\alpha(\text{L})=0.0033$ 5; $\alpha(\text{M})=0.00077$ 12; $\alpha(\text{N}+..)=0.00024$ 4 $\alpha(\text{N})=0.00020$ 3; $\alpha(\text{O})=3.9\times 10^{-5}$ 6; $\alpha(\text{P})=4.1\times 10^{-6}$ 7
		841.10 12	28 3	2264.42 7 ⁻	M1(+E2)	<0.89		0.024 4	$\alpha(\text{K})=0.018$ 5; $\alpha(\text{L})=0.0031$ 7; $\alpha(\text{M})=0.00073$ 15; $\alpha(\text{N}+..)=0.00023$ 5 $\alpha(\text{N})=0.00019$ 4; $\alpha(\text{O})=3.7\times 10^{-5}$ 8; $\alpha(\text{P})=3.9\times 10^{-6}$ 9
		847.19 8	100 17	2258.15 5 ⁻	M1+E2	0.6 5		0.022 5	

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ‡	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
3170.37	5^-	141.00 20	0.43 14	3029.28	5^-				
		257.50 15	0.71 14	2912.98	5^-				
		736.07 15	6.1 7	2434.24	6^-	M1(+E2)	<0.55	0.036 4	$\alpha(\text{K})=0.030$ 3; $\alpha(\text{L})=0.0050$ 4; $\alpha(\text{M})=0.00117$ 9; $\alpha(\text{N}+..)=0.00036$ 3
		831.95 15	8.6 14	2338.44	(4) $^-$	M1(+E2)	<0.94	0.024 5	$\alpha(\text{N})=0.000296$ 22; $\alpha(\text{O})=5.9\times 10^{-5}$ 5; $\alpha(\text{P})=6.3\times 10^{-6}$ 6 $\alpha(\text{K})=0.020$ 4; $\alpha(\text{L})=0.0034$ 6; $\alpha(\text{M})=0.00078$ 13; $\alpha(\text{N}+..)=0.00024$ 4
		911.96 15	100 14	2258.15	5^-	(M1)		0.0225	$\alpha(\text{N})=0.00020$ 4; $\alpha(\text{O})=4.0\times 10^{-5}$ 7; $\alpha(\text{P})=4.2\times 10^{-6}$ 8 $\alpha(\text{K})=0.0185$ 3; $\alpha(\text{L})=0.00307$ 5; $\alpha(\text{M})=0.000715$ 10; $\alpha(\text{N}+..)=0.000222$ 4
		1105.4 2	1.79 14	2065.33	5^+	E1		0.00209 3	$\alpha(\text{N})=0.000182$ 3; $\alpha(\text{O})=3.62\times 10^{-5}$ 5; $\alpha(\text{P})=3.90\times 10^{-6}$ 6 $\alpha(\text{K})=0.001748$ 25; $\alpha(\text{L})=0.000265$ 4; $\alpha(\text{M})=6.10\times 10^{-5}$ 9; $\alpha(\text{N}+..)=1.97\times 10^{-5}$ 3
		1607.2 2	2.0 3	1563.42	4^+	(E1+M2)	0.45 12	0.0032 9	$\alpha(\text{N})=1.544\times 10^{-5}$ 22; $\alpha(\text{O})=3.06\times 10^{-6}$ 5; $\alpha(\text{P})=3.18\times 10^{-7}$ 5; $\alpha(\text{IPF})=9.25\times 10^{-7}$ 15 $\alpha(\text{K})=0.0025$ 8; $\alpha(\text{L})=0.00041$ 13; $\alpha(\text{M})=0.00010$ 3; $\alpha(\text{N}+..)=0.000244$ 6
3191.68	11^-	246.2 ^a 2	3.00 ^a 20	2945.58	10^-	M1+E2 ^a	0.09 ^a 5	0.730 12	$\alpha(\text{N})=2.4\times 10^{-5}$ 8; $\alpha(\text{O})=4.9\times 10^{-6}$ 15; $\alpha(\text{P})=5.2\times 10^{-7}$ 16; $\alpha(\text{IPF})=0.000214$ 15 $\alpha(\text{K})=0.00078$ 8; $\alpha(\text{L})=0.000117$ 14; $\alpha(\text{M})=2.7\times 10^{-5}$ 3; $\alpha(\text{N}+..)=0.000460$ 7
		1005.7 ^a 2	100 ^a 5	2185.88	9^-	E2 ^a		0.00659 10	$\alpha(\text{N})=6.8\times 10^{-6}$ 8; $\alpha(\text{O})=1.36\times 10^{-6}$ 16; $\alpha(\text{P})=1.44\times 10^{-7}$ 17; $\alpha(\text{IPF})=0.000451$ 8
									$\alpha(\text{K})=0.596$ 11; $\alpha(\text{L})=0.1027$ 15; $\alpha(\text{M})=0.0241$ 4; $\alpha(\text{N}+..)=0.00746$ 11
3198.60?	$5^-, 6, 7^-$	934.13 15	100 14	2264.42	7^-				$\alpha(\text{N})=0.00612$ 9; $\alpha(\text{O})=0.001219$ 18; $\alpha(\text{P})=0.0001299$ 21
		941.0 5	36 17	2258.15	5^-				$\alpha(\text{K})=0.00525$ 8; $\alpha(\text{L})=0.001019$ 15; $\alpha(\text{M})=0.000243$ 4; $\alpha(\text{N}+..)=7.46\times 10^{-5}$ 11
3215.36	5^+	1652.10 14	71 10	1563.42	4^+	M1(+E2)	<0.81	0.0047 5	$\alpha(\text{N})=6.15\times 10^{-5}$ 9; $\alpha(\text{O})=1.201\times 10^{-5}$ 17; $\alpha(\text{P})=1.160\times 10^{-6}$ 17
		1941.19 6	100 10	1274.13	4^+	E2(+M1)	>0.33	0.0028 7	$\alpha(\text{K})=0.0037$ 4; $\alpha(\text{L})=0.00060$ 7; $\alpha(\text{M})=0.000140$ 15; $\alpha(\text{N}+..)=0.000224$ 21 $\alpha(\text{N})=3.6\times 10^{-5}$ 4; $\alpha(\text{O})=7.1\times 10^{-6}$ 8; $\alpha(\text{P})=7.6\times 10^{-7}$ 9; $\alpha(\text{IPF})=0.000181$ 16
									$\alpha(\text{K})=0.0021$ 5; $\alpha(\text{L})=0.00034$ 9; $\alpha(\text{M})=7.9\times 10^{-5}$ 19; $\alpha(\text{N}+..)=0.00033$ 8
									$\alpha(\text{N})=2.0\times 10^{-5}$ 5; $\alpha(\text{O})=4.0\times 10^{-6}$ 10; $\alpha(\text{P})=4.3\times 10^{-7}$ 11; $\alpha(\text{IPF})=0.00031$ 7

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ‡	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
3232.27	5 ⁻	304.45 15 604.73 15 725.15 11	13.1 25 22 3 96 5	2927.72 (5,6,7) ⁻ 2627.47 (5 ⁺) 2507.16 5 ⁻		M1+E2	1.3 4	0.023 5	$\alpha(\text{K})=0.019$ 5; $\alpha(\text{L})=0.0035$ 6; $\alpha(\text{M})=0.00083$ 14; $\alpha(\text{N}+..)=0.00026$ 5 $\alpha(\text{N})=0.00021$ 4; $\alpha(\text{O})=4.1\times 10^{-5}$ 8; $\alpha(\text{P})=4.1\times 10^{-6}$ 9
		973.80 20 1414.74 10	45 3 100 11	2258.15 5 ⁻ 1817.54 4 ⁺		E1(+M2)	0.18 7	0.0020 5	$\alpha(\text{K})=0.0015$ 4; $\alpha(\text{L})=0.00024$ 7; $\alpha(\text{M})=5.6\times 10^{-5}$ 15; $\alpha(\text{N}+..)=0.000130$ 3 $\alpha(\text{N})=1.4\times 10^{-5}$ 4; $\alpha(\text{O})=2.8\times 10^{-6}$ 8; $\alpha(\text{P})=3.0\times 10^{-7}$ 9; $\alpha(\text{IPF})=0.000112$ 3
		1669.3 2	8.2 16	1563.42 4 ⁺		E1		0.001322 19	$\alpha(\text{K})=0.000865$ 13; $\alpha(\text{L})=0.0001285$ 18; $\alpha(\text{M})=2.95\times 10^{-5}$ 5; $\alpha(\text{N}+..)=0.000299$ $\alpha(\text{N})=7.48\times 10^{-6}$ 11; $\alpha(\text{O})=1.489\times 10^{-6}$ 21; $\alpha(\text{P})=1.572\times 10^{-7}$ 22; $\alpha(\text{IPF})=0.000290$ 4
3301.73	5 ⁻	1958.10 25 821.13 15	41 6 48 7	1274.13 4 ⁺ 2480.43 6 ⁻		(M1)		0.0295	$\alpha(\text{K})=0.0243$ 4; $\alpha(\text{L})=0.00403$ 6; $\alpha(\text{M})=0.000940$ 14; $\alpha(\text{N}+..)=0.000291$ 4
		1037.34 18	31 4	2264.42 7 ⁻		(E2)		0.00620 9	$\alpha(\text{N})=0.000239$ 4; $\alpha(\text{O})=4.76\times 10^{-5}$ 7; $\alpha(\text{P})=5.12\times 10^{-6}$ 8 $\alpha(\text{K})=0.00496$ 7; $\alpha(\text{L})=0.000950$ 14; $\alpha(\text{M})=0.000226$ 4; $\alpha(\text{N}+..)=6.95\times 10^{-5}$ 10
		1043.63 10	100 12	2258.15 5 ⁻		M1(+E2)	<0.6	0.0146 14	$\alpha(\text{N})=5.72\times 10^{-5}$ 8; $\alpha(\text{O})=1.119\times 10^{-5}$ 16; $\alpha(\text{P})=1.087\times 10^{-6}$ 16 $\alpha(\text{K})=0.0120$ 11; $\alpha(\text{L})=0.00200$ 17; $\alpha(\text{M})=0.00047$ 4; $\alpha(\text{N}+..)=0.000145$ 12
		1697.06 20 3377.4 ^{&} 7	4.6 7 100 ^{&}	1604.82 3 ⁺ 0.0 0 ⁺		D ^{&}			$\alpha(\text{N})=0.000118$ 10; $\alpha(\text{O})=2.36\times 10^{-5}$ 20; $\alpha(\text{P})=2.53\times 10^{-6}$ 23
3377.4	1	3377.4 ^{&} 7	100 ^{&}	0.0 0 ⁺					
3397.62	6 ⁻	455.92 ^b 15 468.22 12	15 3 60 5	2941.9? (4 ⁻ ,5 ⁻ ,6 ⁻) 2928.89 5 ⁻		M1(+E2)	<0.58	0.117 12	$\alpha(\text{K})=0.095$ 11; $\alpha(\text{L})=0.0165$ 13; $\alpha(\text{M})=0.0039$ 3; $\alpha(\text{N}+..)=0.00120$ 9
		477.80 15	20 3	2919.68 5 ⁻		M1(+E2)	<0.63	0.109 13	$\alpha(\text{N})=0.00099$ 7; $\alpha(\text{O})=0.000196$ 15; $\alpha(\text{P})=2.06\times 10^{-5}$ 20 $\alpha(\text{K})=0.089$ 11; $\alpha(\text{L})=0.0155$ 14; $\alpha(\text{M})=0.0036$ 3; $\alpha(\text{N}+..)=0.00113$ 10
		1133.03 7	100 9	2264.42 7 ⁻		M1(+E2)	<0.56	0.0120 10	$\alpha(\text{N})=0.00092$ 8; $\alpha(\text{O})=0.000184$ 16; $\alpha(\text{P})=1.93\times 10^{-5}$ 21 $\alpha(\text{K})=0.0099$ 8; $\alpha(\text{L})=0.00163$ 12; $\alpha(\text{M})=0.00038$ 3; $\alpha(\text{N}+..)=0.000119$ 9
		1139.82 7	65 7	2258.15 5 ⁻		M1		0.01272	$\alpha(\text{N})=9.7\times 10^{-5}$ 7; $\alpha(\text{O})=1.93\times 10^{-5}$ 14; $\alpha(\text{P})=2.07\times 10^{-6}$ 16; $\alpha(\text{IPF})=9.7\times 10^{-7}$ 6 $\alpha(\text{K})=0.01047$ 15; $\alpha(\text{L})=0.001721$ 24; $\alpha(\text{M})=0.000401$ 6; $\alpha(\text{N}+..)=0.0001257$ 18

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
3425.2?	5 ⁻ ,6 ⁻	1167.01 25	100	2258.15	5 ⁻	(M1+E2)	<0.82	0.0106 15	$\alpha(\text{N})=0.0001019$ 15; $\alpha(\text{O})=2.03\times 10^{-5}$ 3; $\alpha(\text{P})=2.19\times 10^{-6}$ 3; $\alpha(\text{IPF})=1.308\times 10^{-6}$ 19 $\alpha(\text{K})=0.0087$ 12; $\alpha(\text{L})=0.00144$ 18; $\alpha(\text{M})=0.00034$ 5; $\alpha(\text{N}+..)=0.000107$ 14 $\alpha(\text{N})=8.5\times 10^{-5}$ 11; $\alpha(\text{O})=1.70\times 10^{-5}$ 22; $\alpha(\text{P})=1.82\times 10^{-6}$ 25; $\alpha(\text{IPF})=2.8\times 10^{-6}$ 3
3516.4	12 ⁺	324.7 ^a 2	100 ^a	3191.68	11 ⁻	E1(+M2) ^a	0.03 ^a 3	0.026 4	$\alpha(\text{K})=0.0210$ 25; $\alpha(\text{L})=0.0036$ 6; $\alpha(\text{M})=0.00084$ 15; $\alpha(\text{N}+..)=0.00026$ 5 $\alpha(\text{N})=0.00021$ 4; $\alpha(\text{O})=4.1\times 10^{-5}$ 8; $\alpha(\text{P})=3.9\times 10^{-6}$ 8 $\alpha(\text{K})=0.59$ 6; $\alpha(\text{L})=0.108$ 3; $\alpha(\text{M})=0.0255$ 5; $\alpha(\text{N}+..)=0.00789$ 15 $\alpha(\text{N})=0.00648$ 12; $\alpha(\text{O})=0.00128$ 3; $\alpha(\text{P})=0.000131$ 9
3638.05	6 ⁻	240.40 15	15.6 20	3397.62	6 ⁻	M1(+E2)	<0.51	0.73 6	$\alpha(\text{K})=0.066$ 9; $\alpha(\text{L})=0.0115$ 11; $\alpha(\text{M})=0.00270$ 25; $\alpha(\text{N}+..)=0.00084$ 8 $\alpha(\text{N})=0.00069$ 7; $\alpha(\text{O})=0.000136$ 13; $\alpha(\text{P})=1.44\times 10^{-5}$ 17 $\alpha(\text{K})=0.0355$ 5; $\alpha(\text{L})=0.00591$ 9; $\alpha(\text{M})=0.001380$ 20; $\alpha(\text{N}+..)=0.000428$ 6 $\alpha(\text{N})=0.000351$ 5; $\alpha(\text{O})=6.99\times 10^{-5}$ 10; $\alpha(\text{P})=7.51\times 10^{-6}$ 11 $\alpha(\text{K})=0.0353$ 5; $\alpha(\text{L})=0.00588$ 9; $\alpha(\text{M})=0.001373$ 20; $\alpha(\text{N}+..)=0.000426$ 6 $\alpha(\text{N})=0.000349$ 5; $\alpha(\text{O})=6.96\times 10^{-5}$ 10; $\alpha(\text{P})=7.47\times 10^{-6}$ 11 $\alpha(\text{K})=0.032$ 3; $\alpha(\text{L})=0.0053$ 4; $\alpha(\text{M})=0.00125$ 9; $\alpha(\text{N}+..)=0.00039$ 3 $\alpha(\text{N})=0.000317$ 22; $\alpha(\text{O})=6.3\times 10^{-5}$ 5; $\alpha(\text{P})=6.7\times 10^{-6}$ 6 $\alpha(\text{K})=0.0093$ 8; $\alpha(\text{L})=0.00154$ 12; $\alpha(\text{M})=0.00036$ 3; $\alpha(\text{N}+..)=0.000114$ 9 $\alpha(\text{N})=9.1\times 10^{-5}$ 7; $\alpha(\text{O})=1.82\times 10^{-5}$ 14; $\alpha(\text{P})=1.95\times 10^{-6}$ 16; $\alpha(\text{IPF})=2.21\times 10^{-6}$ 14 $\alpha(\text{K})=0.0088$ 4; $\alpha(\text{L})=0.00145$ 5; $\alpha(\text{M})=0.000338$ 12; $\alpha(\text{N}+..)=0.000112$ 4 $\alpha(\text{N})=8.6\times 10^{-5}$ 3; $\alpha(\text{O})=1.71\times 10^{-5}$ 6; $\alpha(\text{P})=1.84\times 10^{-6}$ 7; $\alpha(\text{IPF})=7.30\times 10^{-6}$ 22 $\alpha(\text{K})=0.0077$ 9; $\alpha(\text{L})=0.00127$ 14; $\alpha(\text{M})=0.00030$ 4; $\alpha(\text{N}+..)=0.000103$ 11 $\alpha(\text{N})=7.5\times 10^{-5}$ 8; $\alpha(\text{O})=1.50\times 10^{-5}$ 17; $\alpha(\text{P})=1.60\times 10^{-6}$ 19; $\alpha(\text{IPF})=1.15\times 10^{-5}$ 10 $\alpha(\text{K})=0.0047$ 18; $\alpha(\text{L})=0.0008$ 3; $\alpha(\text{M})=0.00018$ 7; $\alpha(\text{N}+..)=0.00010$ 3 $\alpha(\text{N})=4.7\times 10^{-5}$ 16; $\alpha(\text{O})=9.\text{E}-6$ 4; $\alpha(\text{P})=1.0\times 10^{-6}$ 4; $\alpha(\text{IPF})=4.1\times 10^{-5}$ 11
		336.38 20 532.72 10	2.9 6 68 8	3301.73 5 ⁻ 3105.29 6 ⁻		M1(+E2)	<0.65	0.082 10	
		709.13 15	72 12	2928.89 5 ⁻		(M1)		0.0432	
		710.48 15	72 12	2927.72 (5,6,7) ⁻		(M1)		0.0430	
		718.41 7	46 3	2919.68 5 ⁻		M1(+E2)	<0.53	0.039 4	
		1157.59 5	26 3	2480.43 6 ⁻		M1(+E2)	<0.57	0.0113 9	
		1203.72 6	100 12	2434.24 6 ⁻		M1(+E2)	<0.36	0.0107 4	
		1232.91 9	20.0 24	2405.27 7 ⁻		M1(+E2)	<0.75	0.0094 11	
		1373.7 2	20 3	2264.42 7 ⁻		M1(+E2)		0.0058 22	

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ‡	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
3638.05	6^-	1380.05 20	11.6 12	2258.15	5^-	M1(+E2)	<1.4	0.0065 14	$\alpha(\text{K})=0.0053$ 12; $\alpha(\text{L})=0.00087$ 18; $\alpha(\text{M})=0.00020$ 5; $\alpha(\text{N}+..)=0.000110$ 21 $\alpha(\text{N})=5.2\times 10^{-5}$ 11; $\alpha(\text{O})=1.03\times 10^{-5}$ 22; $\alpha(\text{P})=1.10\times 10^{-6}$ 25; $\alpha(\text{IPF})=4.7\times 10^{-5}$ 8
		1573.0 2	13.6 20	2065.33	5^+	E1+M2	0.53 11	0.0040 9	$\alpha(\text{K})=0.0031$ 7; $\alpha(\text{L})=0.00052$ 13; $\alpha(\text{M})=0.00012$ 3; $\alpha(\text{N}+..)=0.000222$ 5 $\alpha(\text{N})=3.1\times 10^{-5}$ 8; $\alpha(\text{O})=6.2\times 10^{-6}$ 15; $\alpha(\text{P})=6.6\times 10^{-7}$ 16; $\alpha(\text{IPF})=0.000184$ 12
3656.3	1	3656.3 ^{&} 3	100 ^{&}	0.0	0^+	D ^{&}			
3733.40?	$6^-, 7^-$	1299.1 2	38 6	2434.24	6^-	M1(+E2)	<1.0	0.0079 13	$\alpha(\text{K})=0.0064$ 11; $\alpha(\text{L})=0.00107$ 17; $\alpha(\text{M})=0.00025$ 4; $\alpha(\text{N}+..)=0.000101$ 15 $\alpha(\text{N})=6.3\times 10^{-5}$ 10; $\alpha(\text{O})=1.26\times 10^{-5}$ 20; $\alpha(\text{P})=1.34\times 10^{-6}$ 22; $\alpha(\text{IPF})=2.4\times 10^{-5}$ 3
		1328.21 10	100 12	2405.27	7^-	M1(+E2)	<0.5	0.0082 5	$\alpha(\text{K})=0.0067$ 4; $\alpha(\text{L})=0.00110$ 7; $\alpha(\text{M})=0.000256$ 15; $\alpha(\text{N}+..)=0.000114$ 6 $\alpha(\text{N})=6.5\times 10^{-5}$ 4; $\alpha(\text{O})=1.30\times 10^{-5}$ 8; $\alpha(\text{P})=1.39\times 10^{-6}$ 9; $\alpha(\text{IPF})=3.41\times 10^{-5}$ 16
		1468.82 25	50 50	2264.42	7^-	(M1)		0.00676 10	$\alpha(\text{K})=0.00550$ 8; $\alpha(\text{L})=0.000897$ 13; $\alpha(\text{M})=0.000209$ 3; $\alpha(\text{N}+..)=0.0001583$ 2 $\alpha(\text{N})=5.30\times 10^{-5}$ 8; $\alpha(\text{O})=1.059\times 10^{-5}$ 15; $\alpha(\text{P})=1.141\times 10^{-6}$ 16; $\alpha(\text{IPF})=9.36\times 10^{-5}$ 14
		1475.08 25	22 4	2258.15	5^-				
		2169.4 5	10 2	1563.42	4^+				
3768.67	$5^-, 6^-$	663.43 7	20 20	3105.29	6^-				
		745.28 12	37 5	3023.45	(5,6) $^-$	M1(+E2)	<0.24	0.0372 9	$\alpha(\text{K})=0.0306$ 8; $\alpha(\text{L})=0.00510$ 11; $\alpha(\text{M})=0.00119$ 3; $\alpha(\text{N}+..)=0.000370$ 8 $\alpha(\text{N})=0.000303$ 7; $\alpha(\text{O})=6.04\times 10^{-5}$ 13; $\alpha(\text{P})=6.47\times 10^{-6}$ 15
		1261.71 25	6.8 12	2507.16	5^-				
		1334.50 10	15.6 16	2434.24	6^-	M1		0.00854 12	$\alpha(\text{K})=0.00701$ 10; $\alpha(\text{L})=0.001147$ 16; $\alpha(\text{M})=0.000267$ 4; $\alpha(\text{N}+..)=0.0001205$ $\alpha(\text{N})=6.78\times 10^{-5}$ 10; $\alpha(\text{O})=1.354\times 10^{-5}$ 19; $\alpha(\text{P})=1.459\times 10^{-6}$ 21; $\alpha(\text{IPF})=3.77\times 10^{-5}$ 6
		1703.27 5	100 8	2065.33	5^+	E1(+M2)	<0.21	0.00151 21	$\alpha(\text{K})=0.00100$ 17; $\alpha(\text{L})=0.00015$ 3; $\alpha(\text{M})=3.5\times 10^{-5}$ 7; $\alpha(\text{N}+..)=0.000321$ 6 $\alpha(\text{N})=9.0\times 10^{-6}$ 18; $\alpha(\text{O})=1.8\times 10^{-6}$ 4; $\alpha(\text{P})=1.9\times 10^{-7}$ 4; $\alpha(\text{IPF})=0.000310$ 7
		2493.9 ^b 20	0.8 4	1274.13	4^+				
3782.28	5^-	611.88 15	26 4	3170.37	5^-				
		1348.4 4	24.0 17	2434.24	6^-	M1(+E2)	<0.87	0.0074 10	$\alpha(\text{K})=0.0060$ 9; $\alpha(\text{L})=0.00099$ 13; $\alpha(\text{M})=0.00023$ 3; $\alpha(\text{N}+..)=0.000110$ 13

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									Comments
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ‡	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	
3782.28	5^-	1524.07 8	100 8	2258.15	5^-	M1(+E2)	<0.62	0.0058 5	$\alpha(\text{N})=5.9\times 10^{-5}$ 8; $\alpha(\text{O})=1.17\times 10^{-5}$ 15; $\alpha(\text{P})=1.25\times 10^{-6}$ 17; $\alpha(\text{IPF})=3.8\times 10^{-5}$ 4 $\alpha(\text{K})=0.0047$ 4; $\alpha(\text{L})=0.00076$ 6; $\alpha(\text{M})=0.000177$ 13; $\alpha(\text{N}+..)=0.000170$ 12 $\alpha(\text{N})=4.5\times 10^{-5}$ 4; $\alpha(\text{O})=9.0\times 10^{-6}$ 7; $\alpha(\text{P})=9.6\times 10^{-7}$ 8; $\alpha(\text{IPF})=0.000115$ 8
		1964.82 10	39 4	1817.54	4^+	E1		0.001293 18	$\alpha(\text{K})=0.000661$ 10; $\alpha(\text{L})=9.77\times 10^{-5}$ 14; $\alpha(\text{M})=2.24\times 10^{-5}$ 4; $\alpha(\text{N}+..)=0.000512$ 8 $\alpha(\text{N})=5.68\times 10^{-6}$ 8; $\alpha(\text{O})=1.132\times 10^{-6}$ 16; $\alpha(\text{P})=1.200\times 10^{-7}$ 17; $\alpha(\text{IPF})=0.000505$ 7
3842.8?	$(5,6^+)$	2176.9 5	5.0 8	1604.82	3^+				
3876.53?	$(5^-,6^+)$	2279.4 5	100	1563.42	4^+				
		1612.15 25	100 20	2264.42	7^-				
		2312.9 5	36 8	1563.42	4^+				
3891.76?	$5^-,6^-$	1826.42 10	100	2065.33	5^+	E1(+M2)	<0.20	0.00144 16	$\alpha(\text{K})=0.00087$ 13; $\alpha(\text{L})=0.000133$ 23; $\alpha(\text{M})=3.1\times 10^{-5}$ 6; $\alpha(\text{N}+..)=0.000409$ 7 $\alpha(\text{N})=7.8\times 10^{-6}$ 14; $\alpha(\text{O})=1.5\times 10^{-6}$ 3; $\alpha(\text{P})=1.6\times 10^{-7}$ 3; $\alpha(\text{IPF})=0.000399$ 8
3893.2	2^+	3893.2& 6	100&	0.0	0^+	E2&		0.001619 23	$\alpha(\text{K})=0.000455$ 7; $\alpha(\text{L})=6.93\times 10^{-5}$ 10; $\alpha(\text{M})=1.598\times 10^{-5}$ 23; $\alpha(\text{N}+..)=0.001079$ $\alpha(\text{N})=4.05\times 10^{-6}$ 6; $\alpha(\text{O})=8.09\times 10^{-7}$ 12; $\alpha(\text{P})=8.70\times 10^{-8}$ 13; $\alpha(\text{IPF})=0.001074$ 15 B(E2)(W.u.)=0.52 10
3996.33	$(5,6^+)$	1054.44 20	100 9	2941.9?	$(4^-,5^-,6^-)$				
		1931.08 20	18 5	2065.33	5^+				
		2433.3 5	36 9	1563.42	4^+				
		2721.2 5	36 9	1274.13	4^+				
3997.89?	$(5,6,7)^-$	1517.46 12	0.46 5	2480.43	6^-	M1(+E2)	<0.65	0.0058 5	$\alpha(\text{K})=0.0047$ 4; $\alpha(\text{L})=0.00077$ 6; $\alpha(\text{M})=0.000178$ 14; $\alpha(\text{N}+..)=0.000166$ 12 $\alpha(\text{N})=4.5\times 10^{-5}$ 4; $\alpha(\text{O})=9.0\times 10^{-6}$ 8; $\alpha(\text{P})=9.7\times 10^{-7}$ 9; $\alpha(\text{IPF})=0.000111$ 8
4032.83?	$(5,6^+)$	1794.34 20	56 8	2238.47?	5,6				
		2758.8 5	100 17	1274.13	4^+				
4039.2?	$(5,6^+)$	2475.6 5	100 25	1563.42	4^+				
		2765.3 5	50 25	1274.13	4^+				
4068.09	$(5^-,6^+)$	1803.95 25	100 14	2264.42	7^-				
		2250.28 20	29 7	1817.54	4^+				
		2794.4 5	29 14	1274.13	4^+				
4076.37	$(5)^-$	971.21 20	≤ 100	3105.29	6^-				
		1569.3 2	52 6	2507.16	5^-	M1(+E2)	<0.5	0.0055 3	$\alpha(\text{K})=0.00442$ 24; $\alpha(\text{L})=0.00072$ 4; $\alpha(\text{M})=0.000168$ 9; $\alpha(\text{N}+..)=0.000193$ 10

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ‡	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
									$\alpha(\text{N})=4.26\times 10^{-5}$ 23; $\alpha(\text{O})=8.5\times 10^{-6}$ 5; $\alpha(\text{P})=9.2\times 10^{-7}$ 5; $\alpha(\text{IPF})=0.000141$ 7
4076.37	(5) ⁻	2471.31 20	9.4 15	1604.82 3 ⁺					
		2802.1 5	6 3	1274.13 4 ⁺					
4081.05	(5,6 ⁺)	2263.38 10	100 16	1817.54 4 ⁺					
		2517.74 10	68 8	1563.42 4 ⁺					
4094.43	6 ⁻	924.16 15	12 3	3170.37 5 ⁻					
		1165.19 20	9.6 16	2928.89 5 ⁻					
		1181.3 2	15 3	2912.98 5 ⁻		M1(+E2)	<0.91	0.0101 16	$\alpha(\text{K})=0.0083$ 13; $\alpha(\text{L})=0.00138$ 20; $\alpha(\text{M})=0.00032$ 5; $\alpha(\text{N}+..)=0.000104$ 15
		1614.30 20	25 3	2480.43 6 ⁻					
		1689.05 12	100 10	2405.27 7 ⁻		M1(+E2)	<0.58	0.0046 3	$\alpha(\text{K})=0.00363$ 24; $\alpha(\text{L})=0.00059$ 4; $\alpha(\text{M})=0.000138$ 9; $\alpha(\text{N}+..)=0.000251$ 15
		1836.6 2	12.1 21	2258.15 5 ⁻		M1(+E2)	<1.1	0.0036 5	$\alpha(\text{N})=3.49\times 10^{-5}$ 22; $\alpha(\text{O})=7.0\times 10^{-6}$ 5; $\alpha(\text{P})=7.5\times 10^{-7}$ 5; $\alpha(\text{IPF})=0.000209$ 12
									$\alpha(\text{K})=0.0027$ 4; $\alpha(\text{L})=0.00045$ 6; $\alpha(\text{M})=0.000104$ 14; $\alpha(\text{N}+..)=0.00032$ 4
									$\alpha(\text{N})=2.6\times 10^{-5}$ 4; $\alpha(\text{O})=5.3\times 10^{-6}$ 8; $\alpha(\text{P})=5.6\times 10^{-7}$ 8; $\alpha(\text{IPF})=0.00028$ 4
4111.47	(5) ⁻	473.40 15	58 12	3638.05 6 ⁻		M1(+E2)	<0.83	0.106 19	$\alpha(\text{K})=0.086$ 17; $\alpha(\text{L})=0.0153$ 20; $\alpha(\text{M})=0.0036$ 5; $\alpha(\text{N}+..)=0.00112$ 14
		941.0 5	50 23	3170.37 5 ⁻					$\alpha(\text{N})=0.00092$ 11; $\alpha(\text{O})=0.000181$ 24; $\alpha(\text{P})=1.9\times 10^{-5}$ 3
		2046.0 5	35 8	2065.33 5 ⁺					
		2837.33 10	100 15	1274.13 4 ⁺					
4115.21	6 ⁻	1383.62 25	57 9	2731.92 5 ⁻ ,6 ⁻ ,7 ⁻		(M1+E2)	<0.63	0.0072 6	$\alpha(\text{K})=0.0059$ 5; $\alpha(\text{L})=0.00097$ 8; $\alpha(\text{M})=0.000226$ 18; $\alpha(\text{N}+..)=0.000122$ 9
									$\alpha(\text{N})=5.7\times 10^{-5}$ 5; $\alpha(\text{O})=1.14\times 10^{-5}$ 10; $\alpha(\text{P})=1.23\times 10^{-6}$ 11; $\alpha(\text{IPF})=5.2\times 10^{-5}$ 4
		1709.9 2	49 11	2405.27 7 ⁻		(M1+E2)	<1.1	0.0042 6	$\alpha(\text{K})=0.0033$ 5; $\alpha(\text{L})=0.00053$ 8; $\alpha(\text{M})=0.000124$ 18; $\alpha(\text{N}+..)=0.00025$ 4
									$\alpha(\text{N})=3.1\times 10^{-5}$ 5; $\alpha(\text{O})=6.3\times 10^{-6}$ 9; $\alpha(\text{P})=6.7\times 10^{-7}$ 11; $\alpha(\text{IPF})=0.00021$ 3
		1850.65 35	31 6	2264.42 7 ⁻		M1(+E2)	<0.37	0.00393 12	$\alpha(\text{K})=0.00298$ 9; $\alpha(\text{L})=0.000484$ 15; $\alpha(\text{M})=0.000112$ 4; $\alpha(\text{N}+..)=0.000355$ 11
									$\alpha(\text{N})=2.86\times 10^{-5}$ 9; $\alpha(\text{O})=5.71\times 10^{-6}$ 18; $\alpha(\text{P})=6.15\times 10^{-7}$ 20; $\alpha(\text{IPF})=0.000320$ 9
		1856.92 20	100 11	2258.15 5 ⁻		M1(+E2)	<1.9		$\alpha(\text{N})=2.4\times 10^{-5}$ 5; $\alpha(\text{O})=4.8\times 10^{-6}$ 10; $\alpha(\text{P})=5.2\times 10^{-7}$ 11; $\alpha(\text{IPF})=0.00028$ 6

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. ^{$\ddagger$}	$\delta^{\ddagger}$	$\alpha^\ddagger$	Comments
4129.57	(5,6)	1791.17 20 2064.2 ^b 5 2566.14 10 2854.9 5	38 8 33 8 100 17 17 8	2338.44 (4) ⁻ 2065.33 5 ⁺ 1563.42 4 ⁺ 1274.13 4 ⁺					
4134.8	14 ⁺	618.4 ^a 2	100 ^a	3516.4 12 ⁺	E2 ^a			0.0180	$\alpha(\text{K})=0.01340$ 19; $\alpha(\text{L})=0.00347$ 5; $\alpha(\text{M})=0.000850$ 12; $\alpha(\text{N}+..)=0.000260$ 4 $\alpha(\text{N})=0.000215$ 3; $\alpha(\text{O})=4.12\times 10^{-5}$ 6; $\alpha(\text{P})=3.49\times 10^{-6}$ 5
4166.03	5 ⁻	1468.82 25 1658.9 2	34 34 14.9 14	2696.71 7 ⁻ 2507.16 5 ⁻	(M1)			0.00510 8	$\alpha(\text{K})=0.00404$ 6; $\alpha(\text{L})=0.000657$ 10; $\alpha(\text{M})=0.0001529$ 22; $\alpha(\text{N}+..)=0.000248$ 4 $\alpha(\text{N})=3.88\times 10^{-5}$ 6; $\alpha(\text{O})=7.76\times 10^{-6}$ 11; $\alpha(\text{P})=8.36\times 10^{-7}$ 12; $\alpha(\text{IPF})=0.000201$ 3
		1685.9 2	26 3	2480.43 6 ⁻	M1(+E2)	<1.1		0.0043 7	$\alpha(\text{K})=0.0034$ 5; $\alpha(\text{L})=0.00055$ 8; $\alpha(\text{M})=0.000128$ 19; $\alpha(\text{N}+..)=0.00023$ 3 $\alpha(\text{N})=3.3\times 10^{-5}$ 5; $\alpha(\text{O})=6.5\times 10^{-6}$ 10; $\alpha(\text{P})=7.0\times 10^{-7}$ 11; $\alpha(\text{IPF})=0.000194$ 25
		1731.68 14	100 8	2434.24 6 ⁻	M1(+E2)	<0.58		0.0044 3	$\alpha(\text{K})=0.00341$ 22; $\alpha(\text{L})=0.00056$ 4; $\alpha(\text{M})=0.000129$ 8; $\alpha(\text{N}+..)=0.000275$ 16 $\alpha(\text{N})=3.28\times 10^{-5}$ 21; $\alpha(\text{O})=6.6\times 10^{-6}$ 4; $\alpha(\text{P})=7.0\times 10^{-7}$ 5; $\alpha(\text{IPF})=0.000235$ 13
		1761.0 2	35 4	2405.27 7 ⁻	E2			0.00246 4	$\alpha(\text{K})=0.00189$ 3; $\alpha(\text{L})=0.000313$ 5; $\alpha(\text{M})=7.31\times 10^{-5}$ 11; $\alpha(\text{N}+..)=0.000182$ 3 $\alpha(\text{N})=1.85\times 10^{-5}$ 3; $\alpha(\text{O})=3.67\times 10^{-6}$ 6; $\alpha(\text{P})=3.81\times 10^{-7}$ 6; $\alpha(\text{IPF})=0.0001595$ 23
		1780.33 25	57 9	2386.19 5 ⁺	(E1+M2)	0.66 20		0.0039 11	$\alpha(\text{K})=0.0029$ 10; $\alpha(\text{L})=0.00049$ 16; $\alpha(\text{M})=0.00011$ 4; $\alpha(\text{N}+..)=0.000330$ 22 $\alpha(\text{N})=2.9\times 10^{-5}$ 10; $\alpha(\text{O})=5.8\times 10^{-6}$ 19; $\alpha(\text{P})=6.2\times 10^{-7}$ 21; $\alpha(\text{IPF})=0.00029$ 4 δ : from $\alpha(\text{K})\text{exp}$ of 1984Dz05 in ε decay. Another possibility is M1+E2 with $\delta<3$; however, that is inconsistent with J^π . Possibly this γ is an M1,E1 doublet.
		1907.23 25	28 5	2258.15 5 ⁻	M1+E2	>0.36		0.0029 7	$\alpha(\text{K})=0.0022$ 6; $\alpha(\text{L})=0.00035$ 9; $\alpha(\text{M})=8.2\times 10^{-5}$ 20; $\alpha(\text{N}+..)=0.00031$ 7 $\alpha(\text{N})=2.1\times 10^{-5}$ 5; $\alpha(\text{O})=4.1\times 10^{-6}$ 11; $\alpha(\text{P})=4.4\times 10^{-7}$ 12; $\alpha(\text{IPF})=0.00029$ 7
4172.44?	(5,6 ⁺)	2100.6 5 1259.08 25 1665.4 2 1786.38 20 2898.0 5	6.8 13 100 16 13.8 11 9.3 18 2.7 9	2065.33 5 ⁺ 2912.98 5 ⁻ 2507.16 5 ⁻ 2386.19 5 ⁺ 1274.13 4 ⁺		E2,E1			
4184.02	6 ⁻	1014.19 25	14 3	3170.37 5 ⁻					

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									Comments
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\delta^{\ddagger}$	$\alpha^\ddagger$	
4184.02	6 ⁻	1092.1 2	20 4	3092.25	5 ⁻	M1(+E2)	<0.77	0.0126 16	$\alpha(\text{K})=0.0103$ 14; $\alpha(\text{L})=0.00172$ 21; $\alpha(\text{M})=0.00040$ 5; $\alpha(\text{N}+..)=0.000125$ 15
		1487.78 25	35 5	2696.71	7 ⁻	(M1+E2)	<0.71	0.0060 6	$\alpha(\text{N})=0.000102$ 12; $\alpha(\text{O})=2.03\times 10^{-5}$ 24; $\alpha(\text{P})=2.2\times 10^{-6}$ 3 $\alpha(\text{K})=0.0049$ 5; $\alpha(\text{L})=0.00080$ 8; $\alpha(\text{M})=0.000185$ 17; $\alpha(\text{N}+..)=0.000153$ 13
		1749.82 25	49 8	2434.24	6 ⁻	(E2+M1)	>1.2	0.0029 5	$\alpha(\text{N})=4.7\times 10^{-5}$ 5; $\alpha(\text{O})=9.4\times 10^{-6}$ 9; $\alpha(\text{P})=1.01\times 10^{-6}$ 10; $\alpha(\text{IPF})=9.6\times 10^{-5}$ 8
		1778.45 20	46 5	2405.27	7 ⁻	M1(+E2)	<1.6	0.0037 7	$\alpha(\text{K})=0.0022$ 4; $\alpha(\text{L})=0.00037$ 6; $\alpha(\text{M})=8.6\times 10^{-5}$ 13; $\alpha(\text{N}+..)=0.00020$ 3
		1925.80 6	100 8	2258.15	5 ⁻	M1+E2	<2.3	0.0031 7	$\alpha(\text{N})=2.2\times 10^{-5}$ 4; $\alpha(\text{O})=4.3\times 10^{-6}$ 7; $\alpha(\text{P})=4.6\times 10^{-7}$ 7; $\alpha(\text{IPF})=0.000176$ 22
									$\alpha(\text{K})=0.0028$ 6; $\alpha(\text{L})=0.00046$ 9; $\alpha(\text{M})=0.000108$ 21; $\alpha(\text{N}+..)=0.00027$ 5
									$\alpha(\text{N})=2.7\times 10^{-5}$ 6; $\alpha(\text{O})=5.4\times 10^{-6}$ 11; $\alpha(\text{P})=5.8\times 10^{-7}$ 12; $\alpha(\text{IPF})=0.00024$ 4
									$\alpha(\text{K})=0.0023$ 5; $\alpha(\text{L})=0.00037$ 8; $\alpha(\text{M})=8.6\times 10^{-5}$ 19; $\alpha(\text{N}+..)=0.00034$ 7
									$\alpha(\text{N})=2.2\times 10^{-5}$ 5; $\alpha(\text{O})=4.4\times 10^{-6}$ 10; $\alpha(\text{P})=4.7\times 10^{-7}$ 11; $\alpha(\text{IPF})=0.00032$ 7
4229.81?	(5,6)	1891.37 20	100 10	2338.44	(4) ⁻				
		2955.6 5	22 11	1274.13	4 ⁺				
4244.01?	(5,6 ⁺)	461.70 15	32 6	3782.28	5 ⁻				
		2680.9 5	100 13	1563.42	4 ⁺				
4250.24	(5,6 ⁺)	2183.7 5	12 3	2065.33	5 ⁺				
		2686.82 10	100 15	1563.42	4 ⁺				
		2976.9 5	6 3	1274.13	4 ⁺				
4286.12	6 ⁻	1589.42 12	100 12	2696.71	7 ⁻	M1(+E2)	<0.43	0.00540 23	$\alpha(\text{K})=0.00433$ 19; $\alpha(\text{L})=0.00071$ 3; $\alpha(\text{M})=0.000164$ 7; $\alpha(\text{N}+..)=0.000205$ 8
									$\alpha(\text{N})=4.17\times 10^{-5}$ 17; $\alpha(\text{O})=8.3\times 10^{-6}$ 4; $\alpha(\text{P})=9.0\times 10^{-7}$ 4; $\alpha(\text{IPF})=0.000154$ 6
		2028.1 4	36 4	2258.15	5 ⁻	E2(+M1)	>0.39	0.0026 6	$\alpha(\text{K})=0.0019$ 5; $\alpha(\text{L})=0.00030$ 7; $\alpha(\text{M})=7.1\times 10^{-5}$ 16; $\alpha(\text{N}+..)=0.00038$ 9
									$\alpha(\text{N})=1.8\times 10^{-5}$ 4; $\alpha(\text{O})=3.6\times 10^{-6}$ 8; $\alpha(\text{P})=3.8\times 10^{-7}$ 9; $\alpha(\text{IPF})=0.00035$ 8
4302.0	15 ⁺	3011.4 5 167.2 ^a 2	6 2 100 ^a	1274.13 4 ⁺ 4134.8 14 ⁺		M1(+E2) ^a	0.00 ^a 4	2.17 4	$\alpha(\text{K})=1.77$ 3; $\alpha(\text{L})=0.305$ 5; $\alpha(\text{M})=0.0715$ 11; $\alpha(\text{N}+..)=0.0222$ 4
4379.05	2 ⁺	4379.0 2	100	0.0 0 ⁺	E2			0.001691 24	$\alpha(\text{N})=0.0182$ 3; $\alpha(\text{O})=0.00362$ 6; $\alpha(\text{P})=0.000387$ 6 $\alpha(\text{K})=0.000368$ 6; $\alpha(\text{L})=5.58\times 10^{-5}$ 8; $\alpha(\text{M})=1.285\times 10^{-5}$ 18; $\alpha(\text{N}+..)=0.001254$ 1
									$\alpha(\text{N})=3.26\times 10^{-6}$ 5; $\alpha(\text{O})=6.51\times 10^{-7}$ 10; $\alpha(\text{P})=7.02\times 10^{-8}$ 10;

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\delta^{\ddagger}$	$\alpha^{\ddagger}$	Comments
									$\alpha(\text{IPF})=0.001250$ 18 $B(\text{E2})(\text{W.u.})=1.23$ 13
4596.2	1	4596.1 8	100	0.0	0 ⁺	D			
4887.7	16 ⁺	585.7 ^a 2	80 ^a 4	4302.0	15 ⁺	M1+E2 ^a	0.4 ^a 2	0.064 7	$\alpha(\text{K})=0.052$ 6; $\alpha(\text{L})=0.0090$ 8; $\alpha(\text{M})=0.00211$ 17; $\alpha(\text{N}+..)=0.00065$ 6
		752.9 ^a 2	100 ^a 5	4134.8	14 ⁺	E2 ^a		0.01179	$\alpha(\text{N})=0.00054$ 5; $\alpha(\text{O})=0.000107$ 9; $\alpha(\text{P})=1.13\times 10^{-5}$ 11 $\alpha(\text{K})=0.00909$ 13; $\alpha(\text{L})=0.00205$ 3; $\alpha(\text{M})=0.000496$ 7; $\alpha(\text{N}+..)=0.0001520$ 22
									$\alpha(\text{N})=0.0001256$ 18; $\alpha(\text{O})=2.43\times 10^{-5}$ 4; $\alpha(\text{P})=2.19\times 10^{-6}$ 3
4922.1	1	4922.0 3	100	0.0	0 ⁺	D			
4933.2	1	4933.1 3	100	0.0	0 ⁺	D			
4980.37	1	4980.3 2	100	0.0	0 ⁺	D			
5012.0	1	5011.9 3	100	0.0	0 ⁺	D			
5283.2	(1,2 ⁺)	5283.1 5	100	0.0	0 ⁺				
5348.7	16 ⁺	1046.7 ^a 2	100 ^a 5	4302.0	15 ⁺	M1(+E2) ^a	-0.07 ^a 4	0.01577 24	$\alpha(\text{K})=0.01298$ 19; $\alpha(\text{L})=0.00214$ 4; $\alpha(\text{M})=0.000499$ 8; $\alpha(\text{N}+..)=0.0001546$ 23
		1214.0 ^a 3	7.7 ^a 14	4134.8	14 ⁺	E2(+M3) ^a	-0.2 ^a 1	0.0062 19	$\alpha(\text{N})=0.0001266$ 19; $\alpha(\text{O})=2.53\times 10^{-5}$ 4; $\alpha(\text{P})=2.72\times 10^{-6}$ 4 $\alpha(\text{K})=0.0050$ 15; $\alpha(\text{L})=0.0009$ 3; $\alpha(\text{M})=0.00022$ 8; $\alpha(\text{N}+..)=7.4\times 10^{-5}$ 23
									$\alpha(\text{N})=5.7\times 10^{-5}$ 19; $\alpha(\text{O})=1.1\times 10^{-5}$ 4; $\alpha(\text{P})=1.1\times 10^{-6}$ 4; $\alpha(\text{IPF})=4.91\times 10^{-6}$ 22
5365.9	(1,2 ⁺)	5365.8 6	100	0.0	0 ⁺				
5398.8	1	5398.7 5	100	0.0	0 ⁺	D			
5610.3	(1,2 ⁺)	5610.2 9	100	0.0	0 ⁺				
5664.5	17 ⁻	315.9 ^a 2	100 ^a 5	5348.7	16 ⁺	E1 ^a		0.0262	$\alpha(\text{K})=0.0215$ 3; $\alpha(\text{L})=0.00361$ 5; $\alpha(\text{M})=0.000843$ 12; $\alpha(\text{N}+..)=0.000258$ 4
		776.7 ^a 2	41.5 ^a 23	4887.7	16 ⁺	(E1) ^a		0.00399 6	$\alpha(\text{N})=0.000213$ 3; $\alpha(\text{O})=4.13\times 10^{-5}$ 6; $\alpha(\text{P})=3.86\times 10^{-6}$ 6 $\alpha(\text{K})=0.00332$ 5; $\alpha(\text{L})=0.000514$ 8; $\alpha(\text{M})=0.0001189$ 17; $\alpha(\text{N}+..)=3.66\times 10^{-5}$ 6
									$\alpha(\text{N})=3.01\times 10^{-5}$ 5; $\alpha(\text{O})=5.94\times 10^{-6}$ 9; $\alpha(\text{P})=6.04\times 10^{-7}$ 9
5675.0	(1,2 ⁺)	5674.9 12	100	0.0	0 ⁺				
5776.7	1	5776.6 4	100	0.0	0 ⁺	D			
5795.6	1	5795.5 6	100	0.0	0 ⁺	D			
5811.4	1	4912.1	100 33	899.165	2 ⁺				
		5811.3 5	67 33	0.0	0 ⁺	D			I_γ : Lower limit, assuming no other decay branches.
5828.4	1	5828.3 3	100	0.0	0 ⁺	D			
5838.5	1	5838.4 4	100	0.0	0 ⁺	D			
5877.9	(1,2 ⁺)	5877.8 6	100	0.0	0 ⁺				
5890.7	(1,2 ⁺)	5890.6 5	100	0.0	0 ⁺				
5943.9	(1,2 ⁺)	5044.6	30 30	899.165	2 ⁺				I_γ : Upper limit, assuming no other decay branches.

Adopted Levels, Gammas (continued)

$\gamma(^{204}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger\#}$	E_f	J_f^π	Mult. [‡]	$\delta^{\ddagger}$	$\alpha^\dagger$	Comments
5943.9	(1,2 ⁺)	5943.8 12	100 30	0.0	0 ⁺				
5967.7	1	5967.6 5	100	0.0	0 ⁺	D			
5981.3	1	5981.2 3	100	0.0	0 ⁺	D			
5998.4	(1,2 ⁺)	5998.3 8	100	0.0	0 ⁺				
6008.8	1	6008.7 7	100	0.0	0 ⁺	D			
6020.2	1	6020.1 6	100	0.0	0 ⁺	D			
6054.1	1	6054.0 15	100	0.0	0 ⁺	D			
6066.9	1	6066.8 8	100	0.0	0 ⁺	D			
6073.0	17	1185.3 ^a 2	100 ^a	4887.7	16 ⁺	D ^a			
6074.3	1	6074.2 11	100	0.0	0 ⁺	D			
6084.5	(1,2 ⁺)	6084.4 8	100	0.0	0 ⁺				
6098.2	19 ⁻	433.7 ^a 2	100 ^a	5664.5	17 ⁻	E2 ^a		0.0418	$\alpha(\text{K})=0.0282$ 4; $\alpha(\text{L})=0.01023$ 15; $\alpha(\text{M})=0.00257$ 4; $\alpha(\text{N}+..)=0.000780$ 11 $\alpha(\text{N})=0.000650$ 10; $\alpha(\text{O})=0.0001218$ 18; $\alpha(\text{P})=8.93\times 10^{-6}$ 13 I_γ : Lower limit, assuming no other decay branches.
6105.0	(1,2 ⁺)	5205.8	100 30	899.165	2 ⁺				
		6105.0 20	60 30	0.0	0 ⁺				
6148.4	1	6148.3 5	100	0.0	0 ⁺	D			
6161.3	(1,2 ⁺)	6161.2 6	100	0.0	0 ⁺				
6194.5	1	6194.4 8	100	0.0	0 ⁺	D			
6210.1	(1,2 ⁺)	6210.0 6	100	0.0	0 ⁺				
6229.2	(1,2 ⁺)	6229.1 20	100	0.0	0 ⁺				
6254.4	1	6254.3 6	100	0.0	0 ⁺	D			
6277.1	1	6277.0 9	100	0.0	0 ⁺	D			
6323.0	1	6322.9 5	100	0.0	0 ⁺	D			
6410.9?	1	6410.9 ^b 6	100	0.0	0 ⁺	D			
6419.6?	(1,2 ⁺)	6419.6 ^b 11	100	0.0	0 ⁺				
6457.0	(1,2 ⁺)	6456.9 9	100	0.0	0 ⁺				
6469.3?	(1,2 ⁺)	6469.3 ^b 7	100	0.0	0 ⁺				
7402.3	(20)	1304.1 ^a 2	100 ^a	6098.2	19 ⁻	D+Q ^a	0.05 ^a 2		
7849.4	(21)	447.1 ^a 2	100 ^a	7402.3	(20)	D+Q ^a	-0.05 ^a 8		
8126.1	(22)	276.7 ^a 3	100 ^a	7849.4	(21)	D ^a	^a		

[†] Additional information 2.

[‡] From ²⁰⁴Bi ε decay for E(level) below 4.3 MeV and (γ, γ') above, except as noted.

I_γ 's shown as approx are from (n,n' γ) where uncertainties were not reported.

@ From (n,n' γ).

& From (γ, γ').

^a From ($\alpha, 4n\gamma$).

^b Placement of transition in the level scheme is uncertain.

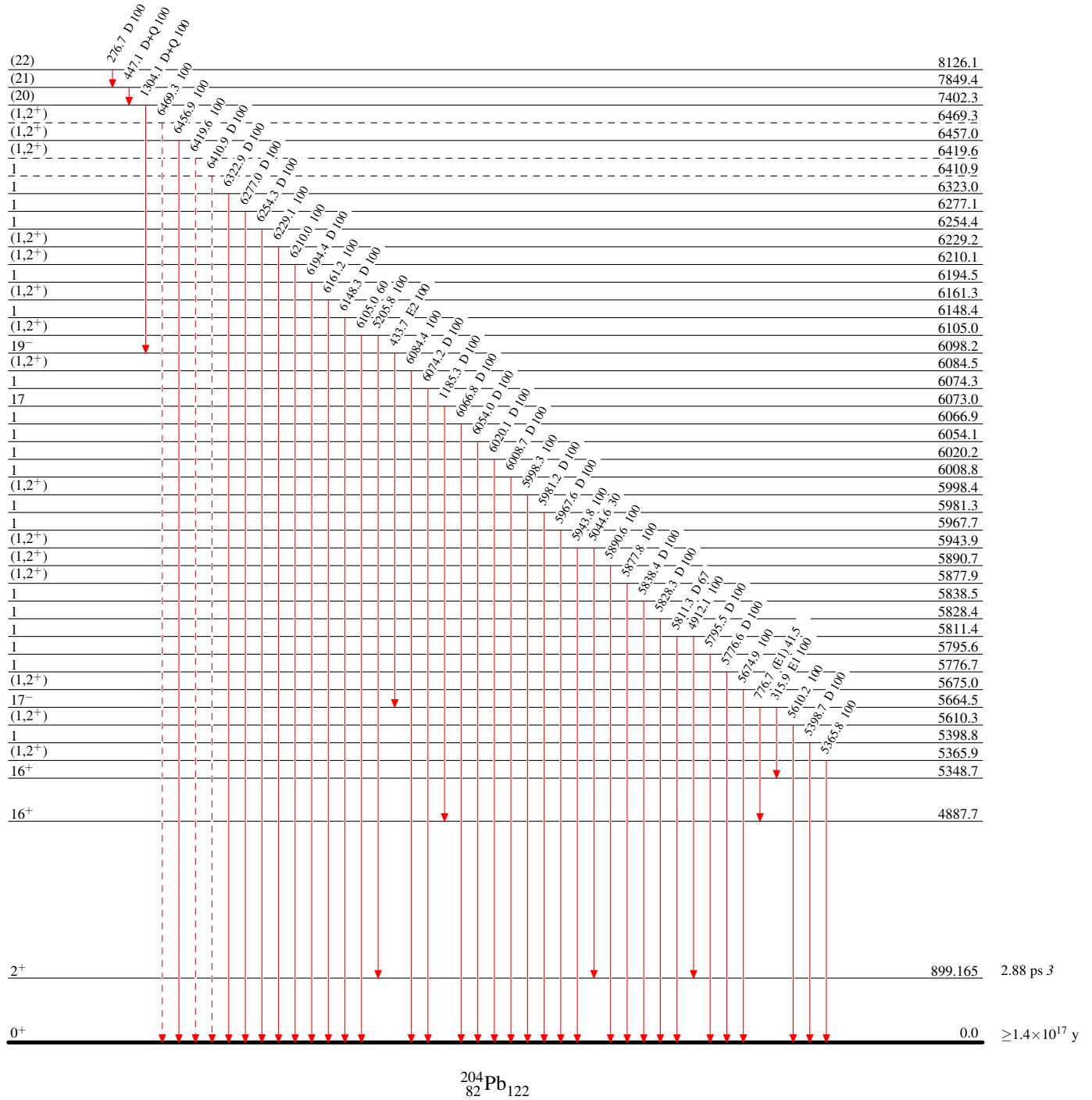
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Type not specified

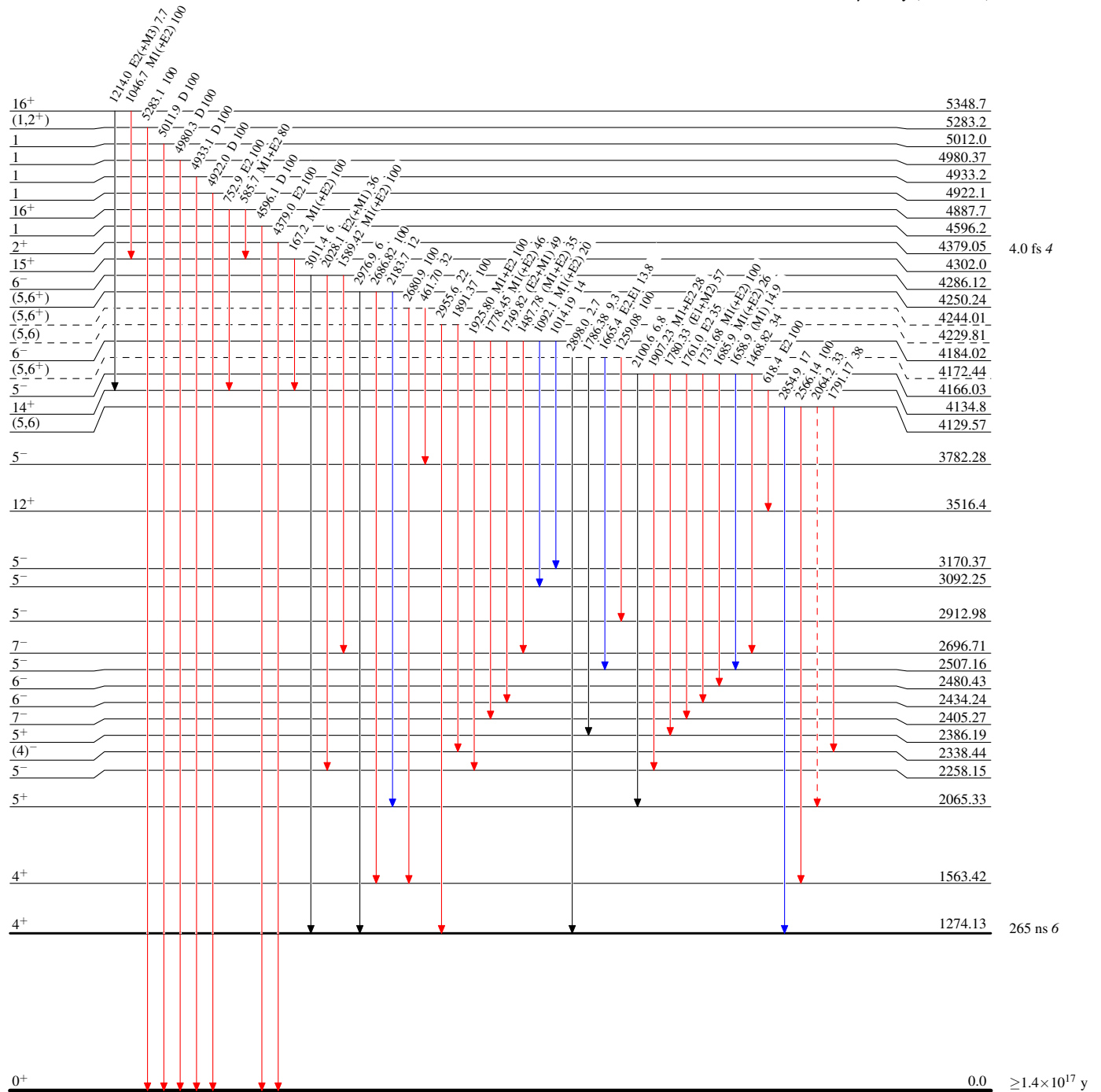
- ▶ $I_\gamma < 2\% \times I_\gamma^{\max}$
—▶ $I_\gamma < 10\% \times I_\gamma^{\max}$
—▶ $I_\gamma > 10\% \times I_\gamma^{\max}$
- - - - -▶ γ Decay (Uncertain)

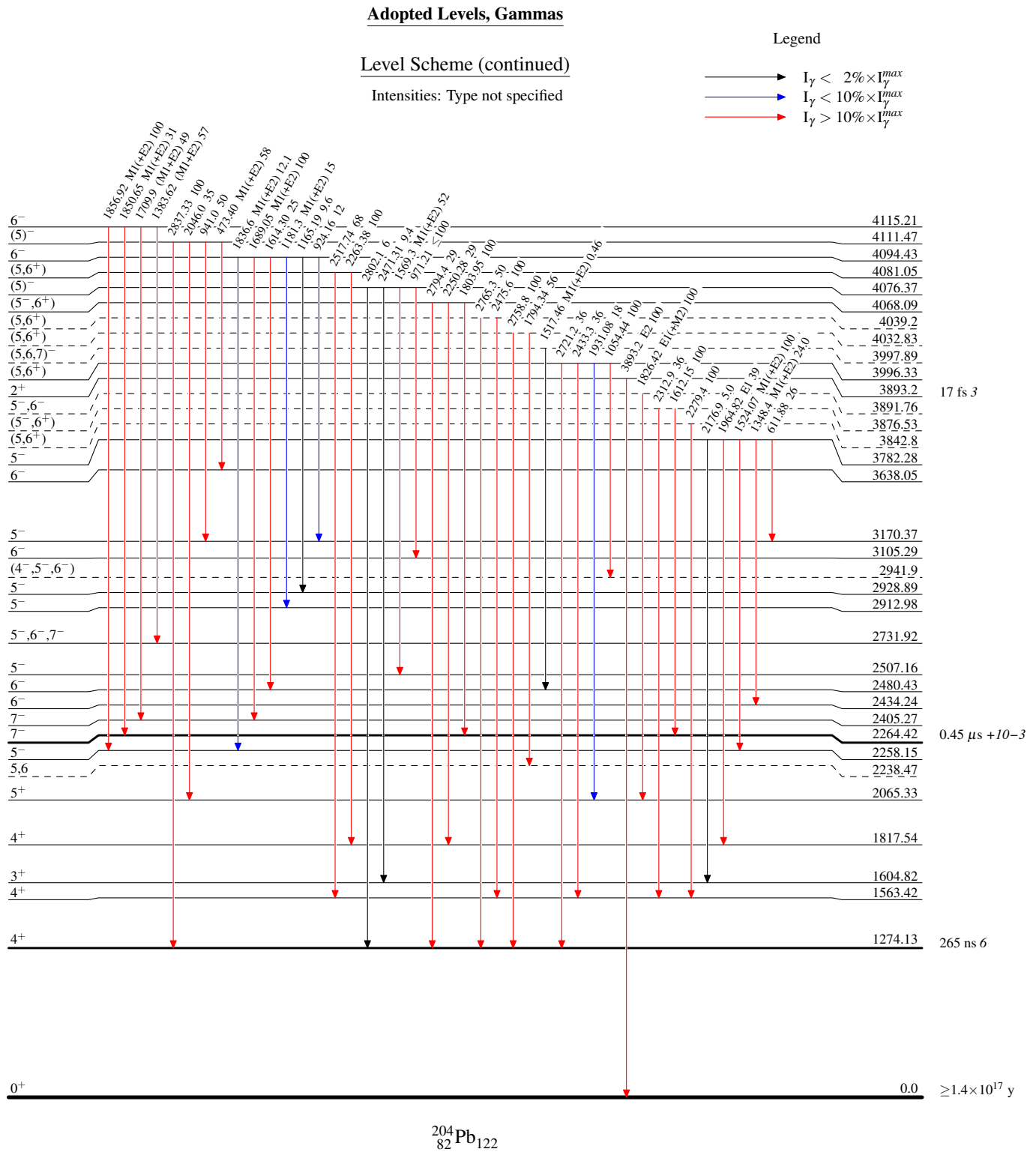


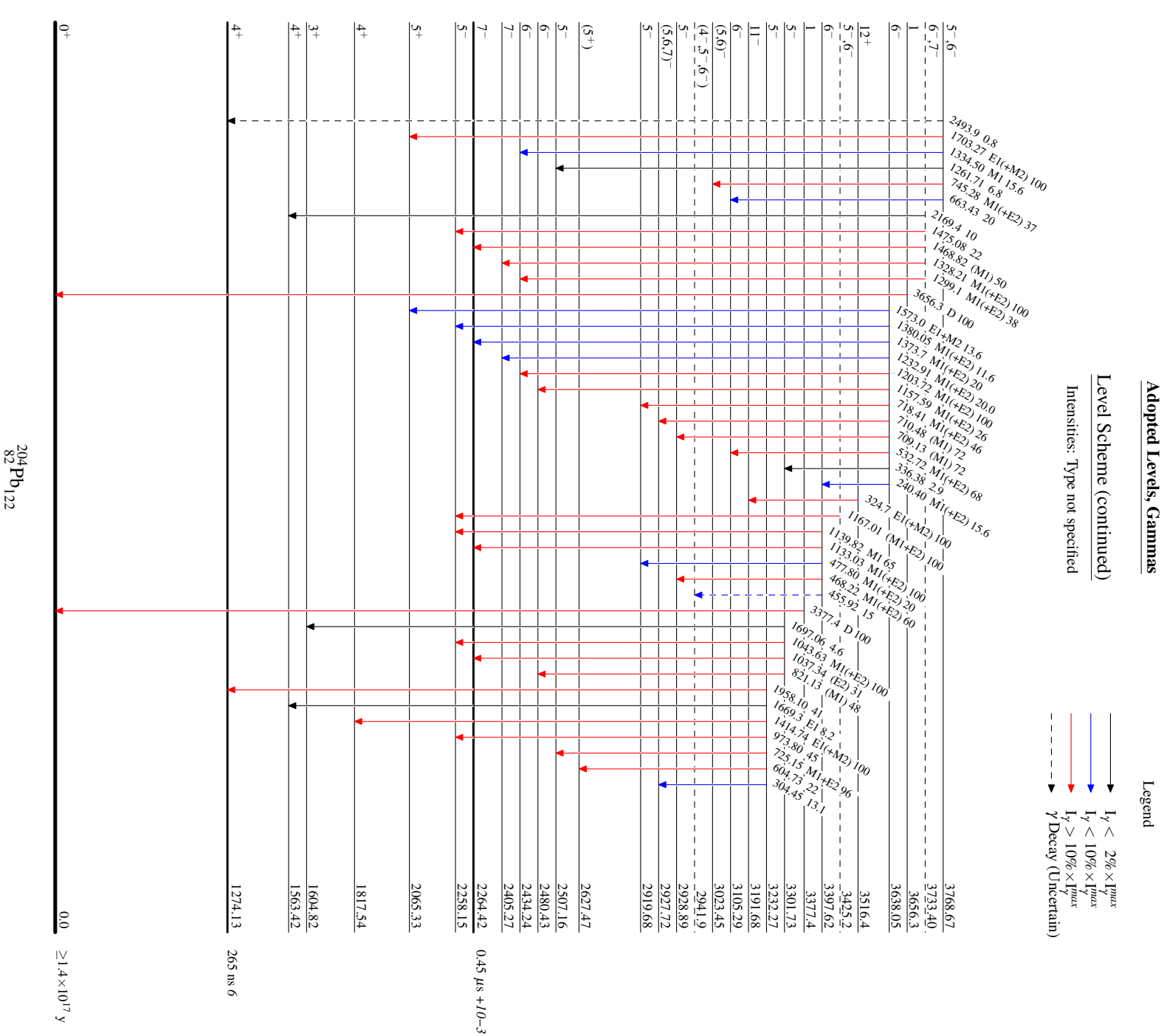
Adopted Levels, Gammas**Legend****Level Scheme (continued)**

Intensities: Type not specified

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



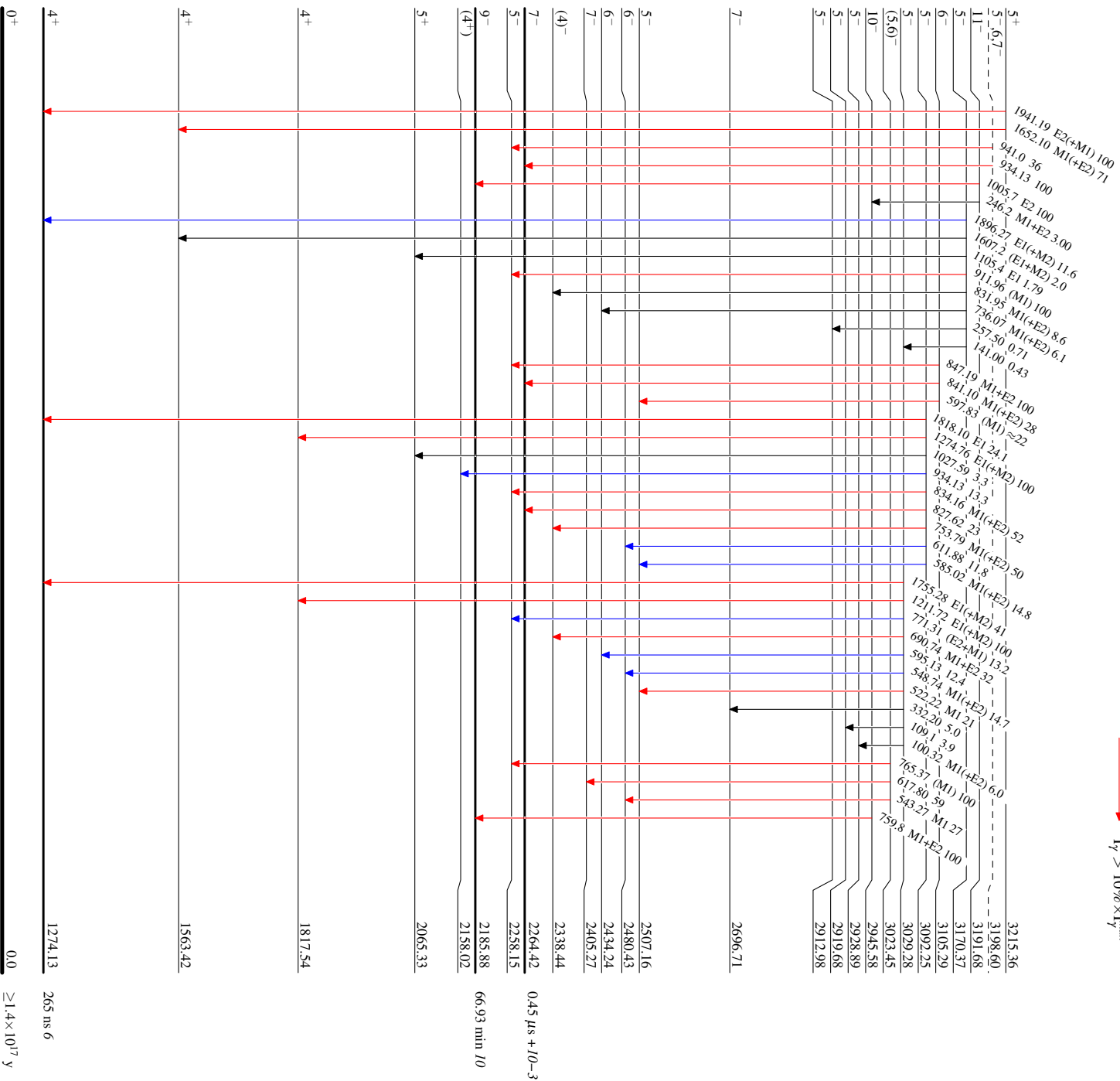
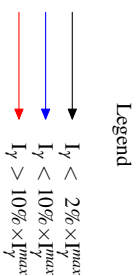




Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



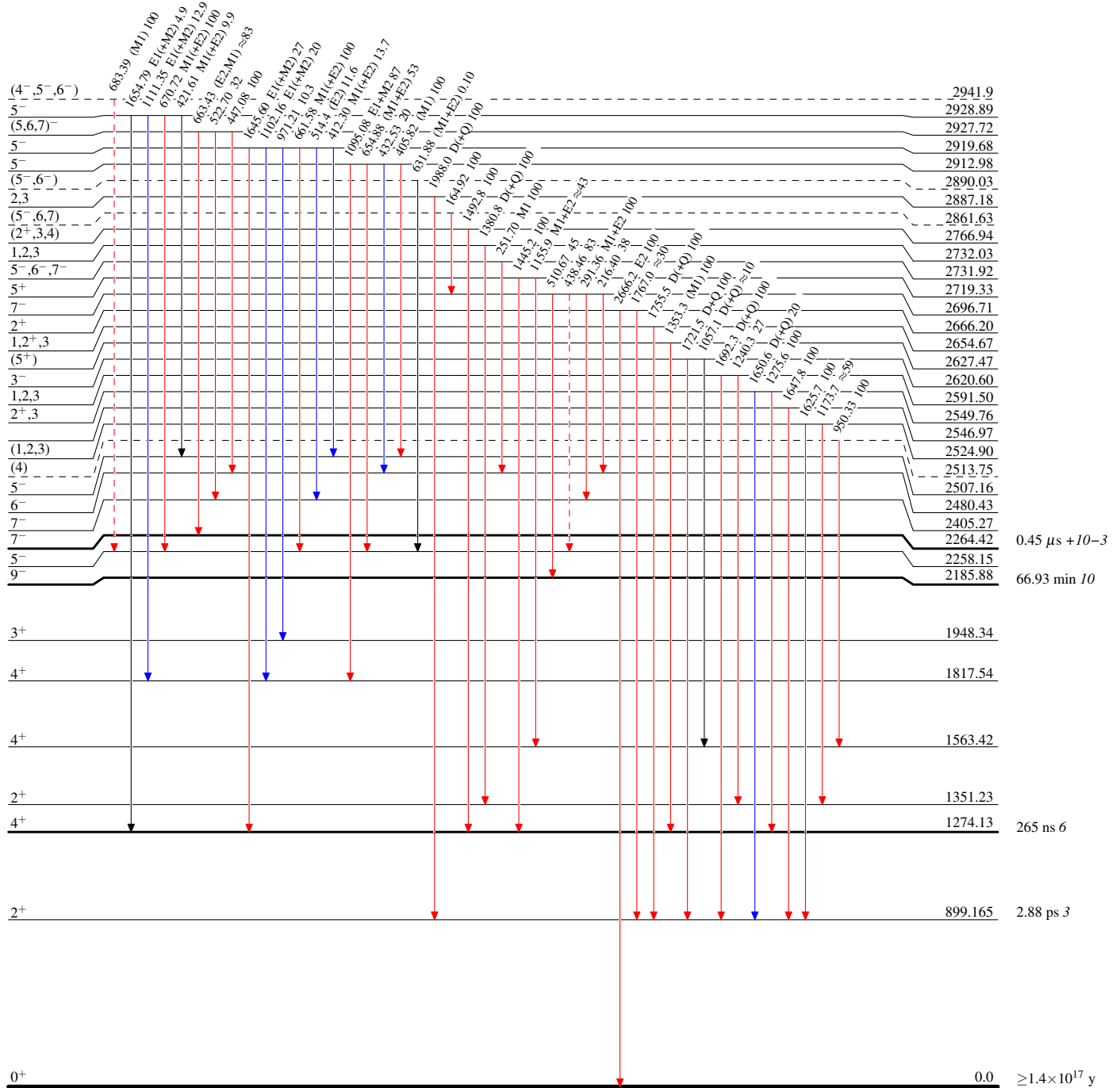
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

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



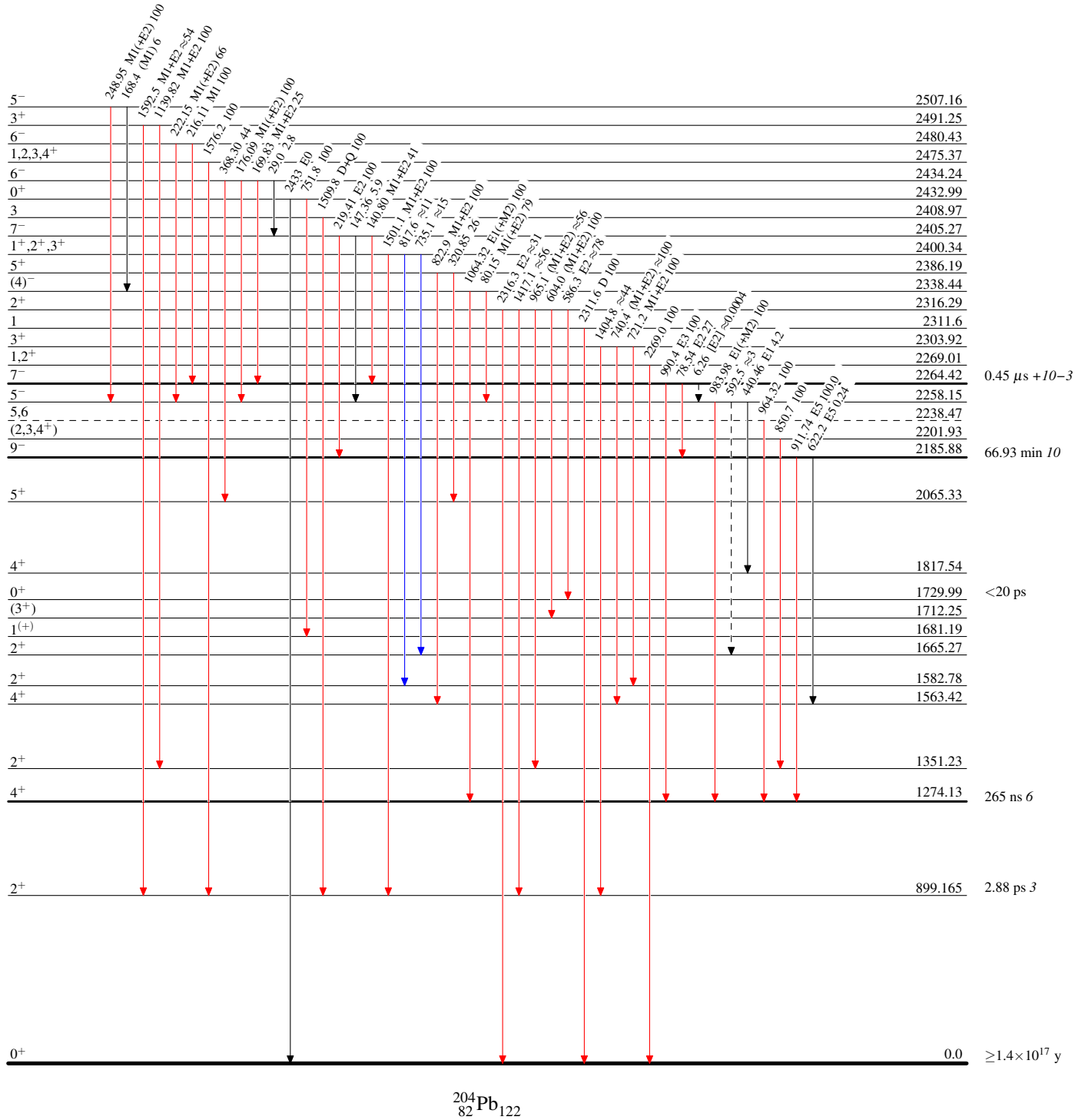
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

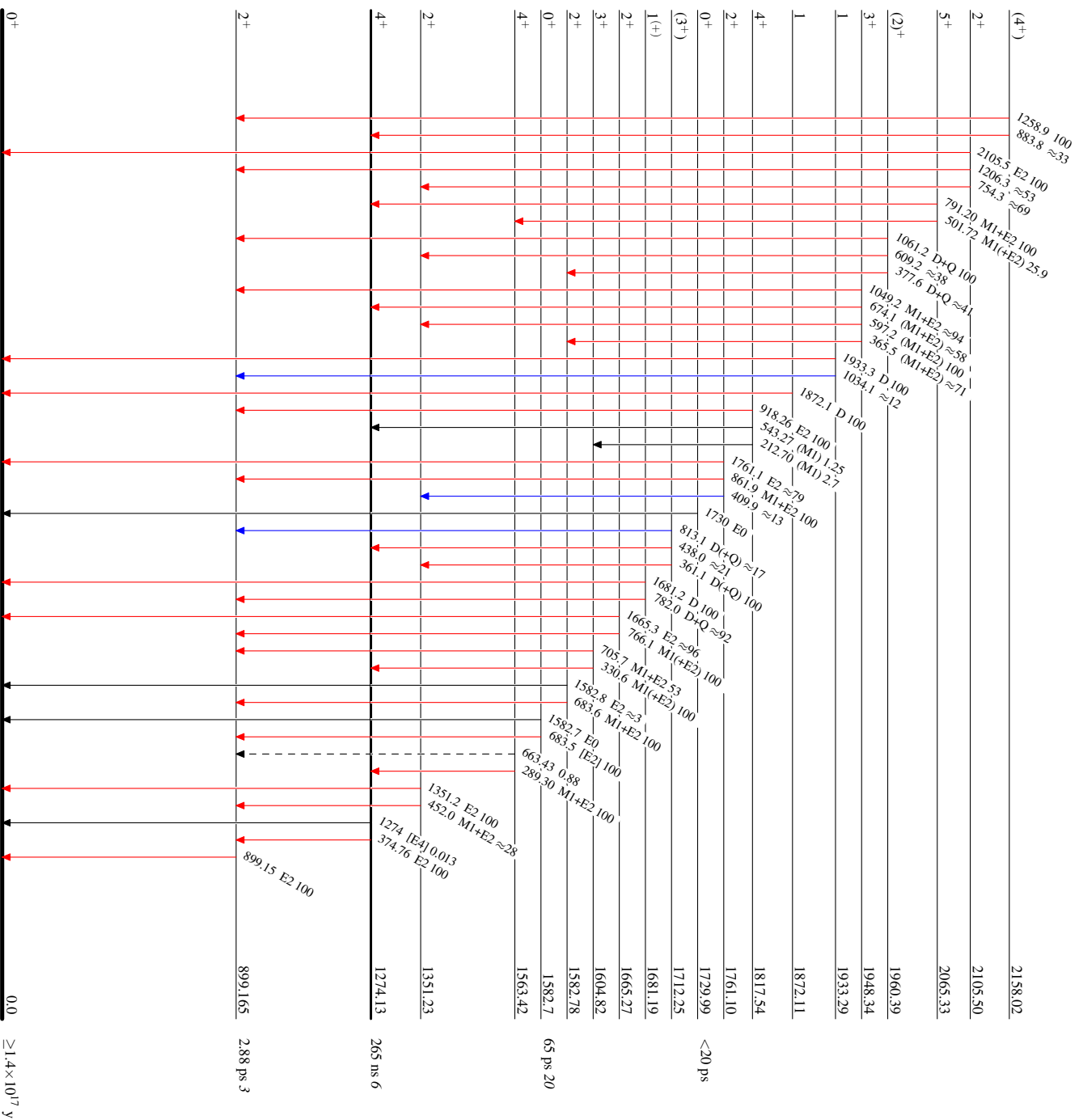
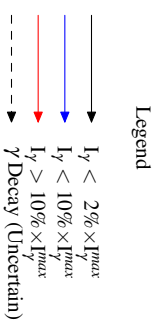
- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\max}$
 $\longrightarrow$ γ Decay (Uncertain)



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



²⁰⁴Pb₁₂₂

≥1.4×10¹⁷ y