Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 201,346 (2025)	21-Jan-2025

Q(β^-)=−3757 *8*; S(n)=8086.66 *6*; S(p)=7253.7 *5*; Q(α)=1134.9 *10* 2021Wa16
S(2n)=14818.33 *12*, S(2p)=13673.3 *12* (2021Wa16).

^{206}Pb Levels

Cross Reference (XREF) Flags

A	^{206}Tl β^- decay	K	^{205}Pb(n,γ) E=thermal	U	^{208}Pb(p,t)
B	^{206}Bi ε decay	L	^{206}Pb(γ,γ')	V	^{208}Pb(α,^{6}He)
C	^{210}Po α decay	M	^{206}Pb(e,e′)	W	^{209}Bi(μ^-,3nγ)
D	^{206}Pb IT decay (202 ns)	N	^{206}Pb(π,π')	X	^{209}Bi(π^-,3nγ)
E	^{204}Hg(^{3}He,n)	O	^{206}Pb(n,n′)	Y	^{209}Bi(pol p,α)
F	^{204}Hg(α,2nγ)	P	^{206}Pb(n,n′γ)	Z	Coulomb excitation
G	^{204}Hg(^{9}Be,α3nγ)	Q	^{206}Pb(p,p′),^{206}Pb(p,p′γ)	Others:	
H	^{204}Pb(t,p)	R	^{206}Pb(d,d′),(α,α')	AA	muonic atom
I	^{205}Tl(^{3}He,d)	S	^{207}Pb(γ,n)		
J	^{205}Tl(α,t)	T	^{207}Pb(p,d),(d,t),(^{3}He,α)		

E(level)†	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	0$^+$	stable	ABCDEFGHIJKLMNOPQRSTUVWXYZ	XREF: Others: AA T$_{1/2}$: T$_{1/2}$(SF)>1.0×10^{23} y from search for fission product tracks in old Pb samples (1970Pr15). T$_{1/2}$(α)>2.5×10^{21} from search for 1135.5 keV α decay events in 2013Be16 (90% C.L. level). Δ<r^2>(208,206)=0.127 *3* fm^2 (2005Wa34). Several articles contain information on isotope shifts and related quantities: shift of K and L x-ray energies (1973Le16,1981BoZQ); shift of optical line energies (1980Ti04,1982ReZV,1986Bo18,1988Bu20); shift in charge radius (1973Le16,1981BoZQ,1982ReZV,1983Th03, 1986An06, 1987Di06,1988Ga27,1990Di09,1991Re08); and shift in energies of x rays in muonic atoms (1966Eh01,1969An26,1975Ke05,1984Ho15). The energies of the x rays from muonic atoms are given by 1966Ac02, 1969An02, and 1973Ma45. Other muonic atom articles: 1969Fo11, 1974Fo09. Additional information 1.
803.043 *25*	2$^+$	8.17 ps *8*	ABCD FGHIJKLMNOPQRSTUVWXYZ	XREF: Others: AA Q=+0.05 *9*; μ<0.030 B(E2)↑=0.1027 *10* J$^\pi$: 803.06γ E2 to 0$^+$; L=2 in ^{206}Pb(p,p′), ^{208}Pb(p,t) and ^{204}Pb(t,p). B(E2)↑: Weighted average of 0.090 *13* (1992Ho08) in ^{206}Pb(π,π') and 0.103 *1* (1978Jo04), 0.108 *10* (1966Hr01), 0.103 *8* (1971Gr31) and 0.095 *5* (1972Ha59) in Coulomb excitation. Others: 0.0957 (1984Pa02) in ^{206}Pb(e,e′), 0.100 (1991Ho13) in (^{17}O,^{17}O′) and 0.12 *3* (1955St57), 0.115 (1960BaZZ) and 0.13 *5* (1962Na06) in Coulomb excitation. T$_{1/2}$: From B(E2)↑=0.1027 *10* (recommended here). Others: 9.1 ps *6* (1970Qu02) and 12 ps *3* (2019Ra28) using the Recoil Distance Doppler Shift technique.

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)†	Jπ	$T_{1/2}$	XREF	Comments
				Q: From 1978Jo04, 2021StZZ in Coulomb excitation. μ: From 1986Bi13,2020StZV (98% confidence level), reevaluation of the original data of 1974Ol02 (g=0.07 *+7–3*) in Coulomb excitation. Other: μ=−0.02 *14* from g=−0.01 *7* using γγ perturbed angular correlation in 1970Za03 [^{206}Bi ε decay]. Dominant configuration: $\nu(p^{-1}_{1/2},f^{-1}_{5/2})$. Additional information 2.
1166.4 *3*	0+	0.75 ns *4*	A C F HI KL O QRSTU Y	XREF: O(1175)Q(1165)R(1163)Y(1168) Jπ: 1166.4-keV E0 transition to 0+; L=0 in ^{208}Pb(p,t), ^{204}Pb(t,p) and ^{205}Tl(^{3}He,d). $T_{1/2}$: Weighted average of 0.67 ns *7* (1972Ta18) and 0.77 ns *4* (1976Ju03) in ^{206}Pb(p,p′γ). Dominant configuration: $\nu(f^{-2}_{5/2})$. Additional information 3.
1340.46 *4*	3+		B D FG I K OPQRSTUVWX	XREF: Others: AA XREF: Q(1344)AA(1338.04) Jπ: 537.5γ M1(+E2) to 2+ level; L(p,d)=3 and L(^{3}He,d)=2. Dominant configuration: $\nu(p^{-1}_{1/2},f^{-1}_{5/2})$. Additional information 4.
1466.80 *3*	2+		F I KL OPQRSTUVW Y	XREF: Others: AA XREF: Q(1469)R(1464)V(1470)Y(1462)AA(1464.8) Jπ: 663.75γ M1+E2 to 2+; 1466.78γ to 0+; L=2 in ^{206}Pb(p,p′), ^{208}Pb(p,t) and ^{205}Tl(^{3}He,d). Dominant configuration: $\nu(p^{-1}_{1/2},p^{-1}_{3/2})$. Additional information 5.
1683.94 *5*	4+		B D FGH K M OPQRSTUVWXY	XREF: Others: AA B(E4)↑=0.0167 XREF: H(1682)O(1682)Q(1686)R(1680)V(1680)AA(1682.5) Jπ: 343.55γ M1(+E2) to 3+, 880.92γ E2 to 2+; L=4 in ^{206}Pb(p,p′) and ^{208}Pb(p,t). B(E4)↑: From ^{206}Pb(e,e′) (1984Pa02). Dominant configuration: $\nu(p^{-1}_{3/2},f^{-1}_{5/2})$. Additional information 6.
1704.45 *3*	1+		I KL OPQ STU W	XREF: Others: AA XREF: I(1700)O(1710)Q(1708)T(1703)U(1702) Jπ: 1704.45γ to 0+; L(p,d)=1 and L(^{3}He,d)=0. Dominant configuration: $\nu(p^{-1}_{1/2},p^{-1}_{3/2})$. Additional information 7.
1784.07 *6*	2+		F I KL OPQ STUVW	XREF: I(1781)O(1762)Q(1787)U(1783)V(1780) Jπ: 980.99γ M1+E2 to 2+; 1784.7γ to 0+; L=2 in ^{206}Pb(p,p′) and ^{205}Tl(^{3}He,d). Dominant configuration: $\nu(f^{-2}_{5/2})$. Additional information 8.
1997.61 *5*	4+		B D F K OPQRSTUVW Y	XREF: R(1993)V(2000)Y(1994) Jπ: 313.67γ M1+E2 to 4+, 1194.68γ E2 to 2+; L=4 in ^{206}Pb(p,p′) and ^{208}Pb(p,t). Dominant configuration: probably a mixture of $\nu(p^{-1}_{3/2},f^{-1}_{5/2})$ and $\nu(f^{-2}_{5/2})$. Additional information 9.
2148.96 *7*	2+		I K OPQ STUVW Y	XREF: I(2147)O(2155)Q(2151)U(2147)V(2150) Jπ: 808.58γ M1+E2 to 3+; L=2 in ^{208}Pb(p,t) and ^{205}Tl(^{3}He,d).

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
				Dominant configuration: $\nu(p^{-1}_{3/2},f^{-1}_{5/2})$. Additional information 10.
2196.7 *4*	$(3)^+$		K oP W	XREF: o(2200) Jπ: 1393.8γ M1+E2 to 2^+; 856.6γ M1+E2 to 3^+. The absence of γ's to 0^+ argues against $J^\pi=2^+$.
2200.13 *5*	7^-	125.1 μs *12*	B D FG oPQR TUVWXY	%IT=100 μ=−0.152 *3*; Q=0.33 *5* XREF: o(2200)R(2197)U(2199) Jπ: 516.18γ E3 to 4^+; L=7 in ^{206}Pb(p,p′) and ^{208}Pb(p,t). $T_{1/2}$: Weighted average of 125 μs *19* (1995An36), 126 μs *6* (1966MoZZ), 119 μs *3* (1973DaZL), 125 μs *2* (1973Sa22), 128 μs *5* (1957To22), 123 μs *4* (1957As65), 123 μs *3* (1960Be36), 130.5 μs *15* (1962Th12), and 123.3 μs *11* (1968Ta13). Others: 145 μs *15* (1953Al47), 141 μs *7* (1967Co20), 124 μs (1994Po20). μ: From g=−0.0217 *4* in 1972Ma24,2020StZV. Other: −0.24 *14* in 1970Qu03. Q: From 1975Ri03,2021StZZ using quadrupole interaction deduced from relaxation time technique. Others: 0.5 *2* (1973DiZE) and ≤0.2 (1970Qu03). Dominant configuration=$\nu(p^{-1}_{1/2},i^{-1}_{13/2})$. Additional information 11.
2236.52 *14*			K P U	XREF: U(2239)
2312[‡] *4*	0^+		I P TUV Y	XREF: T(2315)U(2314)V(2320)Y(2314) Jπ: L=0 in ^{208}Pb(p,t) and ^{205}Tl(^{3}He,d). Dominant configuration=$\nu(p^{-2}_{3/2})$. Additional information 12.
2384.13 *5*	6^-	30 ps *10*	B F oPq TU W	μ=+0.78 *42* XREF: o(2385)q(2385)U(2379) Jπ: 184.02γ M1(+E2) to 7^-; L=6 in ^{207}Pb(p,d). $T_{1/2}$: From 1963Si12. μ: From g=+0.13 *7* using γγ perturbed angular correlation (1970Za03). Dominant configuration=$\nu(p^{-1}_{1/2},i^{-1}_{13/2})$.
2391.32? *8*			B oPq	XREF: o(2385)q(2385) Additional information 13.
2423.36 *4*	2^+		E K PQ TUV Y	XREF: E(2400)Q(2422)U(2421)V(2420) Jπ: 718.92γ to 1^+, 1082.7γ to 3^+; L=2 in ^{208}Pb(p,t). Dominant configuration=$\nu(p^{-2}_{3/2})$. Additional information 14.
2647.69 *6*	3^-	0.087 ps *21*	B F HIJK MNOPQR TU W Z	XREF: Others: AA B(E3)↑=0.64 *4* XREF: H(2643)I(2651)J(2600)M(2650)O(2634)R(2649) U(2644) Jπ: 1844.49γ E1 to 2^+, 963.82γ to 4^+; L=3 in ^{206}Pb(p,p′), ^{206}Pb(d,d′) and ^{208}Pb(p,t). Dominant configuration: octupole vibration coupled to the $\nu(p^{-2}_{1/2})$ ground state. $T_{1/2}$: From 1972Ha59 using DSAM in Coulomb excitation. Other: 0.28 ps *14* (1971Gr31) using DSAM

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	XREF	Comments
			in Coulomb excitation. B(E3)↑: From 1968Zi02 in ^{206}Pb(e,e′). Others: 0.66 *7* (1971Gr31), 0.50 *3* (1972Ha59), 0.60 *4* or 0.65 *4* (1978Sp08) 0.83 *+18−25* (1966Hr01) and 0.35 *2* (1998Wo15) from Coulomb excitation; 0.61 (1991Ho13) in (^{17}O,^{17}O′); 0.62 *9* (1982Ho08) in (π,π′).
2658.28 *19*	9⁻	D FG P TUVWXY	XREF: T(2657)U(2655)V(2660)Y(2654) Dominant configuration: $\nu(f^{-1}_{5/2},i^{-1}_{13/2})$. Jπ: 458.1γ E2 to 7⁻; L=9 in ^{208}Pb(p,t).
2782.15 *5*	5⁻	B F HI OPQR UVW Y	XREF: H(2780)I(2781)O(2783)U(2780)V(2780) Jπ: 581.97γ E2 to 7⁻, 784.58γ E1 to 4⁺; L=5 in ^{206}Pb(p,p′), ^{208}Pb(p,t) and ^{205}Tl(^{3}He,d). Dominant configuration: $\nu(f^{-1}_{5/2},i^{-1}_{13/2})$. Additional information 15.
2826.28 *5*	(4)⁻	B OPQ U	XREF: O(2820)Q(2831)U(2827) Jπ: 44.11γ M1(+E2) to 5⁻, 442.14γ (E2) to 6⁻, 1142.37γ E1 to 4⁺. Dominant configuration: $\nu(f^{-1}_{5/2},i^{-1}_{13/2})$.
2864.52 *7*	7⁻	B F PQ TUV Y	XREF: Q(2861)V(2870) Jπ: 664.17γ M1(+E2), ΔJ=0 to 7⁻; L=7 in ^{208}Pb(p,t). Dominant configuration: $\nu(f^{-1}_{5/2},i^{-1}_{13/2})$. Additional information 16.
2929.06 *9*	4⁺	F K oPQR TUV Y	XREF: o(2940)Q(2928)R(2925)T(2928)V(2930)Y(2933) Jπ: 1588.59γ M1 to 3⁺ level; L=4 in ^{206}Pb(p,p′) and ^{208}Pb(p,t). Dominant configuration: $\nu(p^{-1}_{1/2},f^{-1}_{7/2})$. Additional information 17.
2939.51 *7*	6⁻	B oP	XREF: o(2940) Jπ: 157.52γ M1(+E2) to 5⁻, 739.24γ M1 to 7⁻. Dominant configuration: $\nu(f^{-1}_{5/2},i^{-1}_{13/2})$. Additional information 18.
2954.5 *3*	8⁻	F	Jπ: 296.2γ M1 to 9⁻, 754.4γ M1 to 7⁻. Dominant configuration: $\nu(f^{-1}_{5/2},i^{-1}_{13/2})$.
2960[#] *2*		Q	
2979[‡] *3*	2⁺	Q U	XREF: Q(2988) Jπ: L=2 in ^{208}Pb(p,t).
3016.37 *5*	5⁻	B F I OPQR UV Y	XREF: I(3019)O(3017)Q(3014)R(3014)U(3014)V(3010) Jπ: 1332.33γ E1 to 4⁺, 632.25γ M1+E2 to 6⁻; L=5 in ^{206}Pb(p,p′), ^{208}Pb(p,t), and ^{205}Tl(^{3}He,d). Dominant configuration: $\nu(p^{-1}_{3/2},i^{-1}_{13/2})$. Additional information 19.
3033[#] *3*		Q	
3122.37 *17*	(3⁺)	K OPQ TUV	XREF: O(3125)P(3120.9)Q(3121)U(3119)V(3120) Jπ: 2319.32γ to 2⁺; L=3 in ^{207}Pb(p,d); σ(θ) in ^{208}Pb(p,t). Dominant configuration: $\nu(p^{-1}_{1/2},f^{-1}_{7/2})$. Additional information 20.
3139[#] *6*		Q	
3194[‡] *2*	(5⁻)	j o Q tU Y	XREF: j(3200)o(3200)t(3194) Jπ: L=(5) in ^{206}Pb(p,p′) and ^{208}Pb(p,t).
3194.3 *4*	(1,2)	jK oP t	XREF: j(3200)o(3200)t(3194) Jπ: 3194.6γ to 0⁺, 2391.0γ to 2⁺.
3225.37 *6*	(6,7)⁻	B PQ	XREF: Q(3224) Jπ: 841.28γ M1+E2 to 6⁻, 443.20γ to 5⁻, 1025.30γ M1(+E2) to 7⁻.
3244.22 *5*	4⁻	B I oP Y	XREF: I(3246)o(3250)Y(3237) Jπ: 1903.56γ E1 to 3⁺; 227.65γ to 5⁻; L=5 in ^{205}Tl(^{3}He,d).
3260.3 *5*	6⁺	F oPQR UV Y	XREF: o(3250)Q(3257)R(3256)U(3256)Y(3262)

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	XREF	Comments
			Jπ: 1576.4γ E2 to 4+; L=6 in ^{206}Pb(p,p′) and ^{208}Pb(p,t).
3279.18 *5*	5−	B F I PQR Y	XREF: I(3278)Q(3277)R(3276)Y(3273) Jπ: 1595.27γ E1 to 4+, 895.12 M1+E2 to 6−; L=5 in ^{206}Pb(p,p′), ^{205}Tl(^{3}He,d). Probable dominant configuration: $\nu(f^{-1}_{5/2},g^{+1}_{9/2})$.
3328[#] *5*		Q	
3377[#] *2*		Q Y	
3402.62 *5*	5−	B F I PQR U Y	XREF: Q(3399)R(3400)U(3390)Y(3399) Jπ: 1405.01γ E1 to 4+, 1018.63γ M1(+E2) to 6−; L=5 in ^{206}Pb(p,p′) and ^{206}Pb(d,d′). Probable dominant configuration: $\nu(f^{-1}_{5/2},g^{+1}_{9/2})$.
3452[‡] *3*	5−	I r tU Y	XREF: I(3450)r(3450)t(3453)Y(3447) Jπ: L=5 in ^{208}Pb(p,t).
3453.4 *7*	4+	K PQr t	XREF: Q(3450)r(3450)t(3453) Jπ: 2650.3γ to 2+; L=4 in ^{206}Pb(p,p′).
3484.8 *4*		K PQ T	XREF: Q(3478)
3516 *3*	(4+)	K PQ TU Y	XREF: T(3519)Y(3510) Jπ: 2713γ to 2+; L=4 in ^{208}Pb(p,t). Note, that L=(5) in ^{206}Pb(p,p′) would require $J^{\pi}=4^{-}$, 5^{-} or 6^{-}.
3562.83 *6*	5−	B H PQR Y	XREF: Q(3558)R(3559)Y(3555) Jπ: 1878.65γ E1 to 4+, 915γ E2 to 3−; L=5 in ^{206}Pb(p,p′) and ^{204}Pb(t,p).
3606.2 *3*	2+	JK PQ TU	XREF: J(3600)Q(3603)T(3605)U(3603) Jπ: L=2 in ^{208}Pb(p,t).
3636[‡] *5*	4+	U	Jπ: L=4 in ^{208}Pb(p,t).
3655[#] *5*	6−	Q Y	XREF: Y(3653) Jπ: Analyzing power in (pol p,α).
3675[#] *6*	4−	I Q Y	XREF: I(3670)Y(3672) Jπ: L=3+5 in ^{205}Tl(^{3}He,d); analyzing power in (pol p,α).
3683.6 *11*		P	
3718[#] *2*	3−	I QR Y	XREF: R(3719)Y(3716) Jπ: L=3 in ^{206}Pb(p,p′), analyzing power in (pol p,α); L=3 in ^{205}Tl(^{3}He,d) would require $J^{\pi}=(3,4)^{-}$.
3742.74 *20*	1	L PQ T	XREF: Q(3737) Jπ: 3743.7γ to 0+ in (γ,γ′); L=0 in ^{207}Pb(p,d).
3765[‡] *4*	2+	UV Y	XREF: V(3770)Y(3769) Jπ: L=2 in ^{208}Pb(p,t).
3776.0 *7*	5−	F H PQR	XREF: H(3768)Q(3772)R(3774) Jπ: 1778.4γ (E1) to 4+; L=5 in ^{206}Pb(p,p′), ^{204}Pb(t,p).
3779.9 *10*		P	
3786[a] *7*	(3,4)−	I	Jπ: L=3 in ^{205}Tl(^{3}He,d).
3795[#] *6*		Q	
3827[#] *5*	(6−,7−)	Q Y	XREF: Y(3828) Jπ: Analyzing power in (pol p,α).
3847[#] *4*		Q	
3883[#] *5*		Q	
3898[#] *5*	(2)+	QR U	XREF: R(3900)U(3910) Jπ: L=2 in ^{206}Pb(d,d′), but L=8 in ^{208}Pb(p,t) would require $J^{\pi}=8^{+}$.
3943.7 *10*		P	
3957.5 *3*	10+	D FG Q U X	XREF: Q(3963)U(3960)

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
				Jπ: 1299.1γ (E1) to 9⁻; L=10 in ^{208}Pb(p,t). Dominant configuration=$\nu(i^{-2}_{13/2})$.
3963 *3*	4⁺		PQ TUV	XREF: Q(3963)T(3963)U(3958)V(3960) Jπ: L=4 in ^{208}Pb(p,t) and L=3 in ^{207}Pb(p,d).
3971 *3*	2⁻		Pq Y	XREF: q(3980)Y(3980) Jπ: Analyzing power in (pol p,α).
3989 *3*			Pq T	XREF: q(3980) Jπ: γ's to 2⁺ and 4⁺ levels suggest J^π=2⁺, 3⁺, 3⁻, or 4⁺; but L=(0) in (p,d) suggests J^π=0⁻ or 1⁻.
3994[@] *3*	5⁻[d]		Y	
3997 *3*			j PQ	XREF: j(4000)
4000.7 *8*			jK	XREF: j(4000)
4005.2 *7*	(4⁺)		Ij PQ T	XREF: I(4004)j(4000)Q(4006)T(4008) Jπ: L=(4) in ^{206}Pb(p,p′); L=5 in ^{207}Pb(p,d).
4010 *3*			j P Y	XREF: j(4000)Y(4012)
4027.3 *4*	12⁺	202 ns *3*	D FG U	%IT=100 μ=−1.795 *22*; Q=0.51 *2* XREF: U(4030) Jπ: 1369.0γ E3 to 9⁻; 69.7γ E2 to 10⁺; L(p,t)=12. $T_{1/2}$: Weighted average of 205 ns *4* [1993Bl02,458.1γ(t)], 185 ns *15* [1983St15,γ(t)], 198 ns *6* [1979Ma37,γ(t)], and 200 ns *14* [1971Be37,γ(t)]. Others: 424 ns *35* [1971Be37,70γ(t)], 379 ns *31* [1971Be37,1369γ(t)], 203 ns *28* [2018La03,458γ,1299γ,1369γ(t)]. μ: From g=−0.1496 *18* in 1983St15,2019StZV. Others: μ=−1.86 *5* from g=−0.155 *4* in 1972Na08. Q: Based on Q(^{200}Pb,12⁺)/Q(^{206}Pb,12⁺)=1.553 *10* (1979Ma37). Dominant configuration: $\nu(i^{-2}_{13/2})$.
4035 *3*			P	
4045 *3*	(3⁻,4⁻)		i PQ Y	XREF: i(4049)Q(4044)Y(4044) Jπ: From analyzing power in (pol p,α); 3242γ to 2⁺; L=(6,7) in ^{206}Pb(p,p′) would suggest J=6,7, but the level could be a doublet.
4051 *3*			i P	XREF: i(4049)
4066 *3*	(5)⁻		H PQ Y	XREF: H(4067)Q(4059)Y(4064) Jπ: L=(5) in ^{206}Pb(p,p′); L=5 in ^{204}Pb(t,p).
4076 *3*	(2⁺)		m PQ Y	B(E2)↑=0.23 *2* XREF: m(4090)Q(4073)Y(4080) Jπ,B(E2)↑: From E2 excitation in ^{206}Pb(e,e′).
4102 *6*	2⁺		mN Q Z	B(E2)↑=0.23 *2* XREF: m(4090)N(4111)Q(4107) Jπ: J^π=2⁺ in ^{206}Pb(e,e′) and L=2 in ^{206}Pb(p,p′). B(E2)↑: From ^{206}Pb(e,e′) in 1968Zi02. Others: 0.26 in Coulomb excitation and 0.19 *3* (1992Ho08) in ^{206}Pb(π,π′).
4105[a] *10*	(0⁺)		E I	XREF: E(4.1E+3) Jπ: L=0 in (^{3}He,n) and L=(0) in ^{205}Tl(^{3}He,d).
4113[‡] *4*	4⁺		h TU	XREF: h(4119)T(4116) Jπ: L=4 in ^{208}Pb(p,t). Note that L=(5) in ^{207}Pb(p,d).
4115.9 *6*	2⁺		h KL N P	XREF: h(4119)N(4111) Jπ: From J^π=2⁺ in (γ,γ′).
4123[#] *3*	6⁺		h Q Y	XREF: h(4119)Y(4120)

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	J^π	XREF	Comments
			J^π: L=6 in ^{206}Pb(p,p′). Note that J^π=6$^-$,7$^-$ from analyzing power in ^{209}Bi(pol p,α).
4140[‡] *4*	3$^-$	I q U	XREF: I(4147)q(4145) J^π: L=3 in ^{208}Pb(p,t) and L=(3) in ^{205}Tl(^{3}He,d).
4146.1 *7*	1	L q	XREF: q(4145) J^π: From (γ,γ').
4168[#] *4*	(3$^-$)	Q	J^π: L=(3) in ^{206}Pb(p,p′).
4187 *3*		j PQ	XREF: j(4200)
4212 *3*		j P	XREF: j(4200)
4225[‡] *4*	(4$^+$)	Q U Y	XREF: Q(4219)Y(4221) J^π: L=(4) in ^{206}Pb(p,p′) and ^{208}Pb(p,t), but J^π=(3$^-$,4$^-$) from analyzing power in ^{209}Bi(pol p,α).
4238.2 *11*	(5$^-$)	HI PQ	XREF: H(4236)I(4240)Q(4242) J^π: L=5 in ^{204}Pb(t,p); L=(3) in ^{205}Tl(^{3}He,d). However, L=(2) in ^{206}Pb(p,p′) would suggest that the level may be a multiplet.
4243[@] *3*	(7$^-$,8$^-$)[d]	Y	
4257[@] *3*	(5$^-$,7$^-$)[d]	Y	
4292[#] *5*	(3$^-$)	I Q	XREF: I(4294) J^π: L=(3) in ^{206}Pb(p,p′) and ^{205}Tl(^{3}He,d).
4317[@] *3*	2$^-$[d]	i Y	XREF: i(4327) J^π: L=(3) in ^{205}Tl(^{3}He,d).
4320[c]	4$^+$	M R	B(E4)↑=0.22 *2* J^π: E4 excitation in ^{206}Pb(e,e′); L=4 in ^{206}Pb(d,d′). B(E4)↑: From ^{206}Pb(e,e′) in 1968Zi02.
4328.05 *10*	1$^-$	i L P T	XREF: i(4327) J^π: From (γ,γ').
4340 *3*	4$^+$	PQ t	XREF: Q(4333)t(4345) J^π: L=4 in ^{206}Pb(p,p′).
4347 *3*	6$^+$	H PQ t	XREF: H(4352)Q(4357)t(4345) J^π: L=6 in ^{206}Pb(p,p′) and ^{204}Pb(t,p).
4373[@] *3*		t Y	XREF: t(4370)
4385.0 *30*	(5$^-$)	I PQ t	XREF: I(4391)Q(4391)t(4370) J^π: L=(5) in ^{206}Pb(p,p′) and L=(3) in ^{205}Tl(^{3}He,d).
4410 *3*		P Z	XREF: Z(4413)
4420 *4*		PQ	
4427.1? *30*		P	
4433.4 *10*		P	
4459 *3*	(5$^-$)	PQ	XREF: Q(4456) J^π: L=(5) in (p,p′).
4469.3 *19*		P	
4474[#] *3*	(5$^-$)	Q V	XREF: V(4470) J^π: L=5 in ^{206}Pb(p,p′), L=(6,7) in (α,^{6}He).
4483.6 *5*	2$^+$	L P U	
4496[#] *5*	(4$^-$,5,6)	I Q T	XREF: I(4494)T(4500) J^π: L=(5,6) in ^{206}Pb(p,p′); L=(3) in ^{205}Tl(^{3}He,d).
4512 *3*		P	
4525 *3*	5$^-$	PQ Y	XREF: Q(4534)Y(4532) J^π: L=5 in ^{206}Pb(p,p′).
4550[‡] *15*	9$^-$	U	J^π: L=9 in ^{208}Pb(p,t).
4563[a] *10*	(3$^-$,4$^-$)	I	J^π: L=(3) in ^{205}Tl(^{3}He,d).
4580[#] *3*	(7$^-$,8$^+$)	Q Y	XREF: Y(4584)

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	XREF	Comments
			Jπ: L=8 in ^{206}Pb(p,p′), but $J^{\pi}=(7^-)$ from analyzing power in ^{209}Bi(pol p,α).
4595[#] *5*		Q	
4603.86 *10*	1^-	L P	Jπ: From (γ,γ′).
4614[#] *7*	(3^-)	Q t	XREF: t(4620) Jπ: L=(3) in ^{206}Pb(p,p′).
4626[a] *10*	$(^+)$	hI t	XREF: h(4634)t(4620) Jπ: L=(0,2) in ^{205}Tl(^{3}He,d).
4648 *4*		h PQ	XREF: h(4634)Q(4647)
4657 *3*		P	
4664[#] *4*	5^-	Q	Jπ: L=5 in ^{206}Pb(p,p′).
4673[@] *3*	(8^-)[d]	Y	
4675 *3*	$(2^+,3^+)$	I P	XREF: I(4680) Jπ: L=(2) in ^{205}Tl(^{3}He,d).
4687[@] *3*	(2^-)[d]	Y	
4690.76 *20*	1	L Q	Jπ: From ^{206}Pb(γ,γ′).
4697 *3*	$(3^-,4^-)$	I P	XREF: I(4695) Jπ: L=(3) in ^{205}Tl(^{3}He,d).
4717 *4*	$4^+,5$	PQ	XREF: Q(4710) Jπ: L=(4,5) in ^{206}Pb(p,p′).
4728[@] *3*	(9^-)[d]	Y	
4730 *3*		h PQ	XREF: h(4739)
4742[#] *5*	$(^+)$	hI Q Y	XREF: h(4739)I(4746)Y(4748) L=(0,2) in ^{205}Tl(^{3}He,d).
4756 *3*		P T	
4758.5 *5*	(10)	F	Jπ: 2100.2γ D to 9^-.
4763 *4*		Pq	XREF: q(4770)
4778.3 *5*	1	L Pq Y	XREF: P(4782)q(4770) Jπ: From ^{206}Pb(γ,γ′).
4795 *3*	5^-	hIj PQ t	XREF: h(4805)I(4799)j(4800)t(4806) Jπ: L=5 in ^{206}Pb(p,p′), but $J^{\pi}=(3^-,4^-)$ from L=(3) in ^{205}Tl(^{3}He,d).
4805.3 *3*	1	h j L t	XREF: h(4805)j(4800)t(4806) Jπ: From ^{206}Pb(γ,γ′).
4809[#] *6*	$(5^-,6^+)$	h j Q t	XREF: h(4805)j(4800)t(4806) Jπ: L=(5,6) in ^{206}Pb(p,p′).
4818[@] *3*	10^+[d]	Y	
4828[#] *3*	(7^-)	Q T	XREF: T(4827) Jπ: L=(7) in ^{206}Pb(p,p′).
4833[@] *3*	(5^-)[d]	Y	
4841.7 *5*	10^+	F M	XREF: M(4840) Jπ: E10 excitation in ^{206}Pb(e,e′); 2183.4γ D to 9^-.
4848 *4*		P T	XREF: T(4850)
4860[#] *6*	(6^+)	Q	Jπ: L=(6) in ^{206}Pb(p,p′).
4862[@] *3*	(3^-)[d]	Y	
4878[@] *3*	(6^-)[d]	Q Y	XREF: Q(4873)
4889[#] *5*	(3^-)	Q	Jπ: L=(3) in ^{206}Pb(p,p′).
4901[#] *4*	(7^-)	Q U	Jπ: L=(7) in ^{208}Pb(p,t).
4912[@] *3*	4^+[d]	i Y	XREF: i(4911)
4914.1 *30*	(3^-)	i PQ	XREF: i(4911)Q(4916)

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	XREF	Comments
			Jπ: L=(3) in ^{206}Pb(p,p′).
4925[@] *3*	5+*d*	Y	
4932.7 *3*	2	L	Jπ: From ^{206}Pb(γ,γ′).
4939[#] *4*	7+	Q Y	XREF: Y(4941) Jπ: From analyzing power in ^{209}Bi(pol p,α); L=(6) in ^{206}Pb(p,p′).
4966.1 *30*	(3−)	PQ	XREF: Q(4960) Jπ: L=(3) in ^{206}Pb(p,p′).
4971.16 *10*	1−	L P	Jπ: From ^{206}Pb(γ,γ′).
4979[@] *3*		Y	
4986[#] *3*	(3−)	Q	Jπ: L=(3) in ^{206}Pb(p,p′).
5007[#] *4*	(4+)	Q	Jπ: L=(4) in ^{206}Pb(p,p′).
5011[@] *3*	9+*d*	Y	
5025[#] *5*		Q	
5037.87 *10*	1−	L PQ T	XREF: P(5042)Q(5045)T(5038) Jπ: From ^{206}Pb(γ,γ′), but L=(3) in ^{207}Pb(p,d) may suggest that this level is a doublet.
5040[c]	10+	M	Jπ: From E10 excitation in ^{206}Pb(e,e′).
5069[#] *6*		Q t	XREF: t(5050)
5089 *3*	3+*d*	PQ T Y	XREF: Q(5092)T(5086)Y(5078) Jπ: Others: L=(3,4) in ^{206}Pb(p,p′), L=(3) in ^{207}Pb(p,d).
5100[‡] *15*	(7−)	U	Jπ: L=(7) in ^{208}Pb(p,t).
5111[#] *5*	(4+)	Q	Jπ: L=(4) in ^{206}Pb(p,p′).
5112[@] *3*	6+*d*	Y	
5126[#] *6*	(2+)	M Q t	B(E2)↑=0.0038 *7* XREF: M(5124)t(5131) Jπ: From ^{206}Pb(e,e′), but J^{π}=(5−) from L=(5) in ^{206}Pb(p,p′). This level could be a doublet. B(E2)↑: From ^{206}Pb(e,e′) (1987Sc19).
5127.67 *20*	1	L q t	XREF: q(5126)t(5131) Jπ: From ^{206}Pb(γ,γ′).
5138[#] *7*	8+	H Q t Y	XREF: H(5134)t(5131)Y(5149) Jπ: L=(8) in ^{204}Pb(t,p); analyzing power in ^{209}Bi(pol p,α).
5169[#] *4*		Q T	XREF: T(5164)
5180 *4*		P	
5195 *4*	(2+,3+)	PQ T	XREF: Q(5190)T(5194) Jπ: L=(3) in ^{206}Pb(p,d).
5209[#] *5*		Q T	XREF: T(5200)
5217.6 *5*	(12+)	FG	Jπ: 1190.3γ M1+E2, ΔJ=0 to 12+. Possible configuration=π($h^{+1}_{9/2}$,$h^{-1}_{11/2}$) ν($p^{-1}_{1/2}$,$f^{-1}_{5/2}$).
5236.1 *10*		PQ	XREF: Q(5227)
5247 *4*	2+	H PQ	XREF: Q(5245) Jπ: L=2 in ^{204}Pb(t,p), but L=(3) in ^{206}Pb(p,p′) may suggest that this level is a doublet.
5261[c] *5*	3−	M	B(E3)↑=0.048 *2* Jπ,B(E3)↑: From ^{206}Pb(e,e′) (1987Sc19).
5276 *4*	(1−)	h Pq T	XREF: h(5286)q(5279) Jπ: L=(0) in ^{207}Pb(p,d).
5282 *4*	(2+,3−)	h m Pq	XREF: h(5286)m(5288)q(5279)
5296[#] *6*	(3−,2+)	h m Q	XREF: h(5286)m(5288)

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	XREF	Comments
			Jπ: From ^{206}Pb(e,e′).
5315 *4*	(2+)	H M PQ TU Y	B(E2)↑=0.0048 *8* XREF: H(5326)M(5309)Q(5309)T(5325)U(5317)Y(5317) Jπ: From ^{206}Pb(e,e′); L=(2) in ^{204}Pb(t,p); L=(3) in ^{207}Pb(p,d). B(E2)↑: From ^{206}Pb(e,e′) (1987Sc19).
5332[#] *7*	(3−)	Q Y	XREF: Y(5333) Jπ: L=(3) in ^{206}Pb(p,p′).
5350 *4*		P U	XREF: U(5348)
5365[#] *6*	(6+)	Q V	XREF: V(5360) Jπ: L=(6) in ^{208}Pb(α,^{6}He).
5377.3 *3*	1	H L P u	XREF: H(5374)u(5383) Jπ: From (γ,γ′).
5383[‡] *5*	(9−)	V	XREF: V(5380) Jπ: L=9 in ^{208}Pb(α,^{6}He).
5390 *4*		P U	XREF: U(5383)
5408.5 *5*	(1)	L Q	XREF: Q(5403) Jπ: From ^{206}Pb(γ,γ′).
5411[‡] *8*	11−	UV	XREF: V(5410) Jπ: L=11 in ^{208}Pb(p,t).
5415 *4*	(4+)	PQ T	XREF: Q(5422)T(5420) Jπ: L=(4) in ^{206}Pb(p,p′).
5435[#] *7*	(3−)	H M Q	XREF: H(5444)M(5448)Q(5435) Jπ: L=(3) in ^{204}Pb(t,p); E2,E3 excitation in ^{206}Pb(e,e′).
5459.1 *5*	1	L Q	XREF: Q(5452) Jπ: From ^{206}Pb(γ,γ′).
5463[#] *6*	(3−)	Q	Jπ: L=(3) in ^{206}Pb(p,p′).
5470.28 *10*	1(−)	L	Jπ: From (γ,γ′).
5475[&] *10*	6+	H	Jπ: L=6 in ^{204}Pb(t,p).
5485[#] *4*	(4+)	Q	Jπ: L=(4) in ^{206}Pb(p,p′).
5507[#] *6*	2+	M Q t	B(E2)↑=0.0038 *7* XREF: M(5493)t(5500) Jπ: E2 excitation in ^{206}Pb(e,e′). B(E2)↑: From ^{206}Pb(e,e′) (1987Sc19).
5513 *4*		Pq t	XREF: q(5507)t(5500)
5524.58 *20*	1	L P	XREF: P(5522) Jπ: From ^{206}Pb(γ,γ′).
5533[#] *6*	(4+)	Q	Jπ: L=(4) in ^{206}Pb(p,p′).
5544[#] *7*	1−	H Q	XREF: H(5540) Jπ: L=1 in ^{204}Pb(t,p).
5553.8 *5*	(11)+	FG	Jπ: 1526.6γ M1 (not ΔJ=0) to 12+.
5561[#] *8*	(4+)	M Q U	XREF: M(5564)U(5555) Jπ: L=(4) in ^{206}Pb(p,p′).
5579.78 *10*	1−	LM P	XREF: M(5580)P(5580) Jπ: From ^{206}Pb(γ,γ′).
5588[#] *8*	(5−)	Q	Jπ: L=(5) in ^{206}Pb(p,p′).
5602 *4*	(2+)	H PQ	XREF: H(5601)Q(5599) Jπ: L=(2) in ^{204}Pb(t,p).
5610[‡] *60*	(9−)	U	Jπ: L=(9) in ^{208}Pb(p,t).
5615.28 *10*	1−	LM PQ	XREF: M(5615)P(5618)Q(5619) Jπ: From ^{206}Pb(γ,γ′) and E2,E1 excitation in ^{206}Pb(e,e′).

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	XREF	Comments
5637[&] *10*	0+	H	Jπ: L=0 in ^{204}Pb(t,p).
5640[#] *8*	(3−)	Q t	XREF: t(5650) Jπ: L=(3) in ^{206}Pb(p,p′).
5653[#] *8*		Q t	XREF: t(5650)
5660[‡] *15*	9−	U	Jπ: L=9 in ^{208}Pb(p,t).
5676[#] *6*		M Q	XREF: M(5682)
5687[#] *4*	(4+)	H Q	XREF: H(5688) Jπ: L=(4) in ^{204}Pb(t,p).
5692.98 *10*	1−	LM	XREF: M(5692) Jπ: From ^{206}Pb(γ,γ′) and ^{206}Pb(e,e′).
5702[#] *8*	(5−)	Q	Jπ: L=(5) in ^{206}Pb(p,p′).
5715[#] *7*		m Q	XREF: m(5715)
5721.8 *6*	1	Lm Q	XREF: m(5715) Jπ: From ^{206}Pb(γ,γ′).
5732.09 *10*	1−	LM	Jπ: From ^{206}Pb(γ,γ′) and ^{206}Pb(e,e′).
5741 *4*		m PQ t	XREF: m(5760)Q(5747)t(5750)
5761.39 *10*	1+	Lm Q t	XREF: m(5760)Q(5763)t(5750) Jπ: From ^{206}Pb(γ,γ′).
5775 *4*	(1−)	H m PQ	XREF: H(5782)m(5760) Jπ: L=(1) in ^{204}Pb(t,p).
5779[#] *8*	(5−)	Q	Jπ: L=(5) in ^{206}Pb(p,p′).
5783.0 *5*	(13)+	FG	Jπ: 1755.5γ M1 to 12+.
5796[#] *7*	(4,5)	Q	Jπ: L=(4,5) in ^{206}Pb(p,p′).
5799.39 *10*	1+	LM	B(M1)↑=1.0 *3* XREF: M(5800) Jπ: From ^{206}Pb(γ,γ′) and M1 excitation in ^{206}Pb(e,e′). B(M1)↑: From ^{206}Pb(e,e′).
5800[‡] *15*	8+	U	Jπ: L=8 in ^{208}Pb(p,t).
5818.4 *3*	1−	L Q	XREF: Q(5823) Jπ: From ^{206}Pb(γ,γ′).
5832 *4*		P	
5845.89 *10*	1−	LM PQ	XREF: P(5840)Q(5843) Jπ: From ^{206}Pb(γ,γ′).
5857.09 *10*	1−	LM Q	XREF: Q(5860) Jπ: From ^{206}Pb(γ,γ′).
5885[#] *4*		H Q t	XREF: H(5894)t(5900)
5902.49 *10*	1−	LM t	XREF: M(5903)t(5900) Jπ: From ^{206}Pb(γ,γ′).
5911[#] *7*	(4+)	Q	Jπ: L=(4) transfer in ^{206}Pb(p,p′).
5936 *4*		H Pq	XREF: H(5944)q(5949)
5951.5 *6*	1	L q	XREF: q(5949) Jπ: From ^{206}Pb(γ,γ′).
5959.5 *6*	1	L Q	Jπ: From ^{206}Pb(γ,γ′).
5974[#] *5*	2	M Q	XREF: M(5969) Jπ: From M2,E2 excitation in ^{206}Pb(e,e′).
5994 *4*		PQ	XREF: Q(5990)
5999.5 *6*	1	L Q T	XREF: Q(6001)T(6000) Jπ: From ^{206}Pb(γ,γ′).
6019.79 *20*	1	L Q	XREF: Q(6023) Jπ: From ^{206}Pb(γ,γ′).

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	Jπ	XREF	Comments
6034.2 *5*	14$^+$	FG	Jπ: 250.8γ M1 to 13$^+$, 816.5γ E2 to 12$^+$. Possible configuration= ν($p^{-1}_{1/2}$,$f^{-1}_{5/2}$,$i^{-1}_{13/2}$,$g^{+1}_{9/2}$).
6040[#] *5*	3$^-$	H Q	XREF: H(6045) Jπ: L=3 in ^{204}Pb(t,p).
6065[#] *8*		Q	
6071[#] *4*		Q	
6083[#] *7*		Q	
6100 *70*	8$^+$	V	E(level): From ^{208}Pb(α,^{6}He). Jπ: L=8 in ^{208}Pb(α,^{6}He).
6100.4 *6*	(1)	LM	XREF: M(6103) Jπ: From ^{206}Pb(γ,γ′), but E2 excitation in ^{206}Pb(e,e′) would require $J^\pi=2^+$ [B(E2)↑=0.0185 *7*].
6110.8 *10*	2$^+$	H L Q	XREF: H(6128)Q(6117) Jπ: From ^{206}Pb(γ,γ′) and L=2 in ^{204}Pb(t,p).
6149.2 *5*	1	L Q	XREF: Q(6146) Jπ: From ^{206}Pb(γ,γ′).
6154[#] *5*		Q	
6167[#] *6*		Q	
6180	8$^+$	V	E(level),Jπ: L=8 in ^{208}Pb(α,^{6}He).
6185.9 *6*	2$^+$	H LM Q	B(E2)↑=0.0144 *7* XREF: H(6176)M(6187)Q(6181) Jπ: From ^{206}Pb(γ,γ′), L=2 in ^{204}Pb(t,p) and E2 excitation in ^{206}Pb(e,e′). B(E2)↑: From ^{206}Pb(e,e′) (1987Sc19).
6197 *4*		P	
6198[#] *7*	8$^+$	Q U	XREF: U(6200) Jπ: L=8 in ^{206}Pb(p,t). Note that L=(6) in ^{206}Pb(p,p′).
6200.1 *8*	1$^+$	L P	XREF: P(6197) Jπ: From ^{206}Pb(γ,γ′).
6236 *4*		PQ	XREF: Q(6229)
6251 *4*		P	
6260 *4*		PQ	XREF: Q(6264)
6284[#] *8*		Q	
6302[#] *7*		Q	
6314[#] *6*	(2$^+$,3$^-$)	M Q	XREF: M(6318) Jπ: E2,E3 excitation in ^{206}Pb(e,e′).
6332[#] *6*		Q	
6346[#] *6*	2$^+$	M Q	B(E2)↑=0.0046 *6* Jπ: E2 excitation in ^{206}Pb(e,e′). B(E2)↑: From ^{206}Pb(e,e′) (1987Sc19).
6382.6 *11*	(14$^+$)	G Q	Jπ: 348.4γ to 14$^+$. Possible configuration=π($h^{+1}_{9/2}$,$d^{-1}_{3/2}$) ν($f^{-1}_{5/2}$,$i^{-1}_{13/2}$).
6409.21 *20*	1	L Q	XREF: Q(6408) Jπ: From ^{206}Pb(γ,γ′).
6416[&] *15*	8$^+$	H	Jπ: From L=8 in ^{204}Pb(t,p).
6419.91 *20*	(2$^+$)	LM	B(E2)↑=0.0038 *6* XREF: M(6423) Jπ: From E2 excitation in ^{206}Pb(e,e′), but J=1 in ^{206}Pb(γ,γ′). B(E2)↑: From ^{206}Pb(e,e′) (1987Sc19).
6430.7 *6*	(15$^-$)	F	Jπ: 2403γ E3 to 12$^+$.

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	J^π	XREF	Comments
6432.6 *3*	1	L Q	J^π: From ^{206}Pb(γ,γ').
6442.7 *5*	1	L Q	XREF: Q(6444) J^π: From ^{206}Pb(γ,γ').
6458.9 *6*	1	L Q	XREF: Q(6459) J^π: From ^{206}Pb(γ,γ').
6467.91 *20*	1	L Q	XREF: Q(6459) J^π: From ^{206}Pb(γ,γ').
6480[#] *7*	(6^+)	H Q U	XREF: H(6472)U(6460) J^π: L=(6) in ^{204}Pb(t,p); L=(6) in ^{208}Pb(p,t).
6496[#] *9*		h Q	XREF: h(6502)
6508.71 *10*	1^-	h L	XREF: h(6502) J^π: From ^{206}Pb(γ,γ').
6524[#] *9*	6^+	H q	XREF: q(6524) J^π: L=6 in ^{204}Pb(t,p).
6531.31 *20*	1	L q	XREF: q(6524) J^π: From ^{206}Pb(γ,γ').
6545[#] *10*	2^-	M Q T	B(M2)↑=2.92 *27* XREF: M(6541)T(6560) J^π: M2 excitation in ^{206}Pb(e,e′). B(M2)↑: From ^{206}Pb(e,e′) (1987Sc19).
6565.3 *6*	(15^-)	FG	J^π: 531.1γ (E1) to 14^+. Possible configuration=$\pi(h^{+1}_{9/2},h^{-1}_{11/2})$ $\nu(p^{-1}_{1/2},i^{-1}_{13/2})$.
6565.3+x *6*	(16^-)	G	Additional information 21. J^π: From ^{204}Hg(^{9}Be,α3nγ). Possible configuration=$\pi(h^{+1}_{9/2},h^{-1}_{11/2})$ $\nu(p^{-1}_{1/2},i^{-1}_{13/2})$.
6574[#] *8*	6^+	H Q T	XREF: H(6568)T(6560) J^π: L=6 in ^{204}Pb(t,p).
6593[#] *9*		Q	
6617[#] *8*		Q	
6620	1^+	L	E(level),J^π: From ^{206}Pb(γ,γ') (1993Al13).
6634[#] *10*	(8^+)	H Q	XREF: H(6626) J^π: L=(8) in ^{204}Pb(t,p).
6655[#] *8*		Q	
6689[#] *11*	8^+	H q	XREF: q(6689) J^π: L=8 in ^{204}Pb(t,p).
6692 *7*	6^+	H Q	XREF: H(6716) J^π: L=6 in ^{204}Pb(t,p).
6692.0 *3*	1	L q	XREF: q(6689) J^π: From ^{206}Pb(γ,γ').
6723.62 *10*	1^-	L	J^π: From ^{206}Pb(γ,γ').
6761[#] *5*		Q u	XREF: u(6830)
6806[#] *6*		Q u	XREF: u(6830)
6819.82 *10*	1^-	L u	XREF: u(6830) J^π: From ^{206}Pb(γ,γ').
6850	1^+	L u	XREF: u(6830) E(level),J^π: From (γ,γ') (1993Al13).
6851.4+x *5*	(17^-)	FG	XREF: F(6851.6) J^π: 286.1γ M1 to (16^-).
6933.93 *10*	1	L	J^π: From ^{206}Pb(γ,γ').
6946[&] *15*		H	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	J^π	$T_{1/2}$	XREF	Comments
7000[b]			T	
7061.63 *10*	$1^{(-)}$		L	J^π: From ^{206}Pb(γ,γ').
7077.73 *20*	1		L	J^π: From ^{206}Pb(γ,γ').
7128.33 *20*	(1^-)		L	J^π: From ^{206}Pb(γ,γ').
7158.6 *5*	1		L	J^π: From ^{206}Pb(γ,γ').
7181.2 *4*	1		L	J^π: From ^{206}Pb(γ,γ').
7199.9 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7238.8 *6*	1		L	J^π: From ^{206}Pb(γ,γ').
7258.7 *4*	1		L	J^π: From ^{206}Pb(γ,γ').
7302.7 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7312.7 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7338.3 *7*	1		L	J^π: From ^{206}Pb(γ,γ').
7363.0 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7370[‡] *70*	≥8		UV	XREF: V(7350) J^π: L>8 in ^{208}Pb(p,t).
7387.64 *20*	1		L	J^π: From ^{206}Pb(γ,γ').
7404.6 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7414.2 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7424.24 *20*	1		L	J^π: From ^{206}Pb(γ,γ').
7464.9 *5*	1		L	J^π: From ^{206}Pb(γ,γ').
7486.25 *20*	(1^-)		L	J^π: From ^{206}Pb(γ,γ').
7500?[b]			T	
7506.05 *10*	1		L	J^π: From ^{206}Pb(γ,γ').
7543.05 *10*	1		L	J^π: From ^{206}Pb(γ,γ').
7556.5 *4*	1		L	J^π: From ^{206}Pb(γ,γ').
7571.5 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7597.5 *14*	1		L	J^π: From ^{206}Pb(γ,γ').
7627.8 *5*	1		L	J^π: From ^{206}Pb(γ,γ').
7646.1 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7661.9+x *12*	(18^-)		G	J^π: 810γ D to $17^{(-)}$. Most likely $J^\pi=(18^-)$ because of the E1 feeding from the $J^\pi=(19^+)$ isomer.
7669.9 *3*	1		L	J^π: From ^{206}Pb(γ,γ').
7715.7 *4*	1		L	J^π: From ^{206}Pb(γ,γ').
7758[&] *15*	(4^+)		H T	XREF: T(7750) J^π: L=(4) in ^{204}Pb(t,p).
7759.2+x *15*	(19^+)	7.5 ns *9*	G	$T_{1/2}$: From ^{204}Hg(^{9}Be,α3nγ). J^π: 97.3γ E1 to (18^-). Possible configuration=$\pi(h^{+1}_{9/2},h^{-1}_{11/2})\nu(i^{-2}_{13/2})$.
7781.3 *3*	1		L u	XREF: u(7860) J^π: From ^{206}Pb(γ,γ').
7798.6 *7*	1		L u	XREF: u(7860) J^π: From ^{206}Pb(γ,γ').
7815.6 *3*	1		h L u	XREF: h(7830)u(7860) J^π: From ^{206}Pb(γ,γ').
7845.7 *3*	1		h L u	XREF: h(7830)u(7860) J^π: From ^{206}Pb(γ,γ').
7850[&] *15*	8^+		H u	XREF: u(7860) J^π: From L=8 in ^{204}Pb(t,p).
7874[&] *15*	8^+		H u	XREF: u(7860) J^π: From L=8 in ^{204}Pb(t,p).

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Adopted Levels, Gammas (continued)

^{206}Pb Levels (continued)

E(level)[†]	J^π	XREF	Comments
7881.3 *3*	1	L u	XREF: u(7860) J^π: From ^{206}Pb(γ,γ').
7891.36 *20*	1	L u	XREF: u(7860) J^π: From ^{206}Pb(γ,γ').
7904.46 *20*	1	H L u	XREF: H(7909)u(7860) J^π: From ^{206}Pb(γ,γ').
7930.5 *7*	1	L u	XREF: u(7860) J^π: From ^{206}Pb(γ,γ').
7944.9 *4*	1	L	J^π: From ^{206}Pb(γ,γ').
7972 *4*	1	H L	XREF: H(7983) J^π: From ^{206}Pb(γ,γ').
8001.8 *3*	1	H L	XREF: H(8017) J^π: From ^{206}Pb(γ,γ').
8046.7 *4*	1	L	J^π: From ^{206}Pb(γ,γ').
8080.0 *7*	1	L T	XREF: T(8080) J^π: From ^{206}Pb(γ,γ').
8081.8+x *18*	(20)	G	J^π: 323γ to (19^+).
8118.7 *4*	1	L	J^π: From ^{206}Pb(γ,γ').
8199[&] *15*		H	
8226[&] *15*		H	
8300?[b]		T	
8705.6+x *21*	(21)	G	J^π: 624γ to (20).
8800[b]		T	
9150[b]		T	

[†] From a least-squares fit to Eγ, unless otherwise stated.
[‡] From ^{208}Pb(p,t).
[#] From ^{206}Pb(p,p′).
[@] From ^{209}Bi(pol p,α).
[&] From ^{204}Pb(t,p).
[a] From ^{205}Tl(^{3}He,d).
[b] From ^{207}Pb(p,d),(d,t),(^{3}He,α).
[c] From ^{206}Pb(e,e′).
[d] From analyzing power and measured cross-section in ^{209}Bi(pol p,α).

Adopted Levels, Gammas (continued)

γ(^{206}Pb)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	$I_{(\gamma+ce)}$	Comments
803.043	2^+	803.04[#] *3*	100[#]	0.0	0^+	E2		0.01032 *14*		α(K)=0.00803 *11*; α(L)=0.001742 *24*; α(M)=0.000420 *6* α(N)=0.0001063 *15*; α(O)=2.059×10^{-5} *29*; α(P)=1.890×10^{-6} *26* B(E2)(W.u.)=2.84 *3* E_γ: Other: 803.10 keV *5* (1972Ma63) and 803.06 keV *10* (2007Me09). Mult.: K:L:M(exp)=0.808 *50*:0.161 *16*:0.062 *15* and α(K)exp=0.00808 *7*, α(L)exp=0.00161 *16* and α(M)exp=0.00062 *15* (1977Dr08); α(K)exp=0.0081 *14* (1999Oh02); K:L1+L2:L3:M:N=100:21.6 *11*:1.99 *11*:5.35 *27*:1.73 *10* (1972Ka30); A_2=0.13 *1*, A_4=0.04 *1* (1993Bl02);
1166.4	0^+	(363.3 *5*)	≤0.12	803.043	2^+	[E2]		0.0668 *10*		α(K)=0.0418 *6*; α(L)=0.01875 *28*; α(M)=0.00476 *7* α(N)=0.001204 *18*; α(O)=0.0002235 *33*; α(P)=1.505×10^{-5} *22* B(E2)(W.u.)<0.0020 E_γ: From level energy differences. I_γ: From ^{206}Tl β^- decay.
		1166.4 *5*		0.0	0^+	E0			100	E_γ: From ce measurements in 1977Dr08. Mult.: K:L:M(exp)=0.40 *5*:0.067 *7*: <0.03 (1977Dr08); K:L=5.61 *38* (1990Tr01). $I_{(\gamma+ce)}$: From ^{206}Tl β^- decay. Monopole strength ρ=0.026 *3* (1972Ta18) and 0.034 *2* (1976Ju03) in ^{206}Pb(p,p′γ).
1340.46	3^+	537.48[#] *4*	100[#]	803.043	2^+	M1(+E2)	+0.001 *5*	0.0892 *12*		α(K)=0.0731 *10*; α(L)=0.01229 *17*; α(M)=0.00287 *4* α(N)=0.000730 *10*; α(O)=0.0001456 *20*; α(P)=1.561×10^{-5} *22* E_γ: Other: 537.45 keV *4* (1972Ma63) and 537.47 keV *10* (2007Me09). Mult.: γ(θ) in 1973Ka35, 1993Bl02; γγ(θ) in 1977Mc01, 1980Ba19, 1989BeYQ; γ(θ) and pol in 1994Po20; K:L1+L2:L3:M:N+O=257 *10*:46.3 *21*:0.253 *33*:8.43 *44*:3.23 *18* (1972Ka30) and $α_K$(exp)=0.068 *3* (1972Ma63); K:L(exp)=5.3 *8* and α(K)exp=0.070 *8* (1977Dr08); δ: Using the briccmixing code and the following data: K:L1+L2:L3:M:N+O(exp) in 1972Ka30, K:L(exp) in 1977Dr08, α(K)exp in 1972Ma63 and 1977Dr08, and δ=+0.001 *5* in 1973Ka35. Others: δ=−0.221 *80* (1977Mc01), −0.05 *10* (1980Ba19) and −0.02 *2* (1989BeYQ).

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Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
1466.80	2+	126.42[#] *6*	3.8[#] *4*	1340.46	3+				
		663.75[#] *3*	100[#] *1*	803.043	2+	M1+E2	−0.07 *2*	0.0511 *7*	α(K)=0.0420 *6*; α(L)=0.00701 *10*; α(M)=0.001637 *23* α(N)=0.000416 *6*; α(O)=8.30×10^{-5} *12*; α(P)=8.90×10^{-6} *13* Mult.,δ: From γ(θ) in ^{206}Pb(n,n′γ) (1989BeYQ). Other Mult: from A_2=0.26 *9*, A_4=−0.02 *14* (1993Bl02).
		1466.78[#] *4*	30.4[#] *7*	0.0	0+				
1683.94	4+	343.55[‡] *14*	35.4[‡] *5*	1340.46	3+	M1(+E2)	+0.001 *3*	0.295 *4*	α(K)=0.2413 *34*; α(L)=0.0411 *6*; α(M)=0.00961 *13* α(N)=0.002442 *34*; α(O)=0.000487 *7*; α(P)=5.21×10^{-5} *7* E_γ: Other: 344.51 keV *3* (1972Ma63) and 343.52 keV *10* (2007Me09). I_γ: Others: 42.2 *17* in ^{206}Pb(n,n′γ) and 100 *22* in (π,3nγ). Mult.: γ(θ) in 1973Ka35, 1993Bl02; γγ(θ) in 1977Mc01, 1980Ba19, 1989BeYQ; γ(θ) and pol in 1994Po20; K:L:M(exp)=6.5 *4*:0.96 *7*:0.26 *3*, α(K)exp=0.227 *30* (1977Dr08); K:L1:L2:L3:M:N:O=675 *27*:108 *4*:11.3 *6*:0.797 *59*: 42.4 *18*:10.6 *4*:1.71 *7* (1972Ka30); α_K(exp)=0.230 *13* (1972Ma63). δ: Using the briccmixing code and the following data: K:L1:L2:L3(exp) in 1972Ka30, K:L:M(exp) in 1977Dr08, α(K)exp in 1972Ma63, and δ=+0.001 *3* in 1973Ka35 and 0.002 *20* in 1977Mc01. Others: δ=0.085 *63* (1980Ba19) and −0.11 *4* (1989BeYQ).
		880.92[‡] *7*	100.0[‡] *11*	803.043	2+	E2		0.00855 *12*	α(K)=0.00673 *9*; α(L)=0.001389 *19*; α(M)=0.000333 *5* α(N)=8.43×10^{-5} *12*; α(O)=1.640×10^{-5} *23*; α(P)=1.540×10^{-6} *22* E_γ: Other: 881.01 keV *5* (1972Ma63) and 880.98 keV *10* (2007Me09). Mult.: γ(θ) 1993Bl02; γ(θ) and pol in 1994Po20; K:L(exp)=5.6 *1*, α(K)exp=0.0071 *7* (1977Dr08); K:L1+L2:L3:M:N=55.4 *24*:11.5 *6*: 0.73 *5*:2.90 *16*:0.94 *11*; α_K(exp)=0.0067 *4* (1972Ma63).
1704.45	1+	1704.45[#] *3*	100[#]	0.0	0+				
1784.07	2+	317.52[#] *14*	23.4[#] *29*	1466.80	2+				
		617.6[#] *4*	11.0[#] *29*	1166.4	0+				
		980.99[#] *5*	100[#] *4*	803.043	2+	M1+E2	0.17 *2*	0.01835 *27*	α(K)=0.01509 *22*; α(L)=0.00250 *4*; α(M)=0.000582 *8* α(N)=0.0001478 *21*; α(O)=2.95×10^{-5} *4*; α(P)=3.17×10^{-6} *5* Mult.,δ: From γ(θ) in ^{206}Pb(n,n′γ) (1989BeYQ).
		1784.7[a] *11*	5.2[a] *15*	0.0	0+				
1997.61	4+	313.67[‡] *10*	18.8[‡] *5*	1683.94	4+	M1+E2	−0.22 *7*	0.365 *10*	α(K)=0.297 *9*; α(L)=0.0517 *10*; α(M)=0.01214 *21*

$^{206}_{82}Pb_{124}$-17

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
									α(N)=0.00308 *5*; α(O)=0.000614 *11*; α(P)=6.48×10^{-5} *16* E_γ: Other: 313.67 keV *7* (1972Ma63). I_γ: Other: 26 *4* in ^{206}Pb(n,n′γ). Mult.: γ(θ) (1989BeYQ,1993Bl02); K:N=14.80 *75*:0.101 *34* (1972Ka30); α_K(exp)=0.330 *27* (1972Ma63). δ: Using the briccmixing code and the following data: δ=−0.23 *5* (1989BeYQ), K:N(exp) (1972Ka30) and α_K(exp) (1972Ma63).
1997.61	4$^+$	657.20[‡] *4*	100.0[‡] *16*	1340.46	3$^+$	M1+E2	0.15 *3*	0.0518 *8*	α(K)=0.0425 *7*; α(L)=0.00712 *11*; α(M)=0.001664 *25* α(N)=0.000423 *6*; α(O)=8.43×10^{-5} *13*; α(P)=9.03×10^{-6} *14* E_γ: Other: 657.16 keV *5* (1972Ma63) and 657.18 keV *10* (2007Me09). Mult.: γ(θ) (1989BeYQ,1993Bl02); K:L1+L2:L3:M:N=10.2 *5*:1.71 *10*:0.033 *19*:0.431 *35*:0.141 *30* (1972Ka30); α_K(exp)=0.043 *3* (1972Ma63). δ: Using the briccmixing code and the following data: δ=0.15 *2* 1989BeYQ, K:L1+L2:L3(exp) (1972Ka30) and α_K(exp) (1972Ma63).
		1194.3[‡] *4*	14.5[‡] *8*	803.043	2$^+$	E2		0.00474 *7*	α(K)=0.00382 *5*; α(L)=0.000696 *10*; α(M)=0.0001644 *23* α(N)=4.17×10^{-5} *6*; α(O)=8.19×10^{-6} *11*; α(P)=8.14×10^{-7} *11*; α(IPF)=3.40×10^{-6} *6* E_γ: Other: 1194.68 keV *8* (1972Ma63). I_γ: Other: 9.8 *23* in ^{206}Pb(n,n′γ). Mult.: K:L1+L2=0.132 *16*:0.0387 *99*(1972Ka30); α_K(exp)=0.0038 *7* (1972Ma63).
2148.96	2$^+$	682.29[#] *19*	20.4[#] *29*	1466.80	2$^+$	M1+E2	−0.22 *5*	0.0462 *10*	α(K)=0.0379 *8*; α(L)=0.00636 *12*; α(M)=0.001486 *28* α(N)=0.000378 *7*; α(O)=7.53×10^{-5} *15*; α(P)=8.05×10^{-6} *17* Mult.,δ: From γ(θ) in ^{206}Pb(n,n′γ) (1989BeYQ).
		808.58[#] *17*	20.4[#] *29*	1340.46	3$^+$	M1+E2	−0.27 *11*	0.0293 *13*	α(K)=0.0241 *11*; α(L)=0.00402 *16*; α(M)=0.000940 *35* α(N)=0.000239 *9*; α(O)=4.76×10^{-5} *18*; α(P)=5.09×10^{-6} *21* Mult.,δ: From γ(θ) in ^{206}Pb(n,n′γ) (1989BeYQ).
		1345.88[#] *7*	100[#] *5*	803.043	2$^+$	M1+E2	−0.17 *2*	0.00824 *12*	α(K)=0.00675 *10*; α(L)=0.001106 *16*; α(M)=0.000257 *4* α(N)=6.54×10^{-5} *9*; α(O)=1.306×10^{-5} *19*; α(P)=1.405×10^{-6} *20*; α(IPF)=4.10×10^{-5} *6* Mult.,δ: From γ(θ) in ^{206}Pb(n,n′γ) (1989BeYQ).
		2149[a] *2*	3.7[a] *17*	0.0	0$^+$				
2196.7	(3)$^+$	729.2[a] *8*	6.7[a] *27*	1466.80	2$^+$	(M1+E2)	−0.05 *5*	0.0401 *6*	α(K)=0.0329 *5*; α(L)=0.00549 *8*; α(M)=0.001280 *19* α(N)=0.000325 *5*; α(O)=6.49×10^{-5} *10*; α(P)=6.97×10^{-6} *11* Mult.,δ: From γ(θ) (1989BeYQ) in ^{206}Pb(n,n′γ).

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Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
2196.7	(3)$^+$	856.6 *6*	100 *6*	1340.46	3$^+$	M1+E2	−0.026 *15*	0.0265 *4*	α(K)=0.02176 *31*; α(L)=0.00361 *5*; α(M)=0.000841 *12* α(N)=0.0002137 *30*; α(O)=4.26×10^{-5} *6*; α(P)=4.58×10^{-6} *6* E_γ: From ^{205}Pb(n,γ), E=thermal (1996Ra16). I_γ: From ^{206}Pb(n,n′γ). Mult.,δ: From γ(θ) (1989BeYQ) in ^{206}Pb(n,n′γ).
		1393.8[a] *8*	78[a] *5*	803.043	2$^+$	M1+E2	−0.019 *9*	0.00767 *11*	α(K)=0.00628 *9*; α(L)=0.001025 *14*; α(M)=0.0002387 *34* α(N)=6.06×10^{-5} *9*; α(O)=1.211×10^{-5} *17*; α(P)=1.305×10^{-6} *18*; α(IPF)=5.98×10^{-5} *9* E_γ: From ^{205}Pb(n,γ), E=thermal (1996Ra16). I_γ: From ^{206}Pb(n,n′γ). Mult.,δ: From γ(θ) in ^{206}Pb(n,n′γ) (1989BeYQ).
2200.13	7$^-$	202.44 *10*	0.11 *1*	1997.61	4$^+$	[E3]		3.78 *5*	B(E3)(W.u.)=0.28 *3* α(N)=0.1726 *25*; α(O)=0.0311 *4*; α(P)=0.001533 *22* α(K)=0.426 *6*; α(L)=2.470 *35*; α(M)=0.678 *10*
		516.18 *4*	100 *1*	1683.94	4$^+$	E3		0.0886 *12*	α(K)=0.0483 *7*; α(L)=0.0301 *4*; α(M)=0.00782 *11* α(N)=0.001988 *28*; α(O)=0.000370 *5*; α(P)=2.64×10^{-5} *4* B(E3)(W.u.)=0.361 *4* Mult.: K:L1:L2:L3:M2:M3:N:O=2.25 *18*:0.684 *23*:7.87 *44*:3.78 *21*: 3.46 *20*: 0.907 *94*:1.24 *12*: 0.223 *50* (1972Ka30); $α_K$(exp)=0.414 *78* (1972Ma63); α(K)exp=0.052 *5* and K:L:M(exp)=4.80 *32*:2.92 *24*:0.78 *12* (1977Dr08).
2236.52		1433.47[#] *13*	100[#]	803.043	2$^+$				
2384.13	6$^-$	184.02 *3*	100	2200.13	7$^-$	M1(+E2)	−0.006 *31*	1.654 *23*	B(M1)(W.u.)=0.044 *+23−12*; B(E2)(W.u.)<0.97 α(K)=1.350 *19*; α(L)=0.2325 *33*; α(M)=0.0545 *8* α(N)=0.01385 *19*; α(O)=0.00276 *4*; α(P)=0.000295 *4* Mult.: From γ(θ) (1989BeYQ) and γγ(θ) (1980Ba19); K:L1:L2:L3:M:N:O=3350 *130*:509 *21*:55.0 *25*:3.67 *19*: 135 *5*: 33.7 *19*:7.59 *44* (1972Ka30); $α_K$(exp)=1.69 *10* (1972Ma63); δ: Using the briccmixing code and the following data: K:L1:L2:L3:M:N:O(exp) (1972Ka30), $α_K$(exp) (1972Ma63) and δ=−0.013 *25* (1980Ba19) and −0.01 *2* (1989BeYQ).
2391.32?		1588.2 *1*	100	803.043	2$^+$				
2423.36	2$^+$	639.0[#] *4*	4.9[#] *13*	1784.07	2$^+$				
		718.92[#] *5*	48.5[#] *20*	1704.45	1$^+$				
		956.56[#] *11*	20.7[#] *16*	1466.80	2$^+$				
		1082.7[#] *3*	8.5[#] *16*	1340.46	3$^+$				
		1620.30[#] *6*	100[#] *4*	803.043	2$^+$				

$^{206}_{82}Pb_{124}$-19

Adopted Levels, Gammas (continued)

$\gamma(^{206}Pb)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
2647.69	3^-	963.82 *9*	6.4 *7*	1683.94	4^+	[E1]		0.00267 *4*	α(K)=0.002231 *31*; α(L)=0.000341 *5*; α(M)=7.86×10^{-5} *11* α(N)=1.989×10^{-5} *28*; α(O)=3.94×10^{-6} *6*; α(P)=4.06×10^{-7} *6* B(E1)(W.u.)=0.00015 *4*
		1844.49 *10*	100 *4*	803.043	2^+	E1		1.29×10^{-3} *2*	α(K)=0.000733 *10*; α(L)=0.0001086 *15*; α(M)=2.494×10^{-5} *35* α(N)=6.31×10^{-6} *9*; α(O)=1.258×10^{-6} *18*; α(P)=1.332×10^{-7} *19*; α(IPF)=0.000417 *6* B(E1)(W.u.)=0.00033 *8* Mult.: α_K(exp)=0.00071 *11* (1972Ma63); $\gamma(\theta)$ in 1993Bl02.
2658.28	9^-	458.1[@] *2*	100[@]	2200.13	7^-	E2		0.0364 *5*	α(K)=0.02504 *35*; α(L)=0.00856 *12*; α(M)=0.002140 *30* α(N)=0.000542 *8*; α(O)=0.0001019 *14*; α(P)=7.65×10^{-6} *11* Mult.: From $\gamma(\theta)$ in 1993Bl02 and $\gamma(\theta)$ and pol. in 1994Po20.
2782.15	5^-	398.00 *3*	79.6 *7*	2384.13	6^-	M1+E2	0.038 *9*	0.1981 *28*	α(K)=0.1622 *23*; α(L)=0.0275 *4*; α(M)=0.00644 *9* α(N)=0.001635 *23*; α(O)=0.000326 *5*; α(P)=3.49×10^{-5} *5* Mult.: K:L1:L2:L3:M:N:O=208 *8*:32.9 *15*:3.58 *27*:0.235 *42*: 8.33 *45*: 2.23 *12*: 0.357 *36* (1972Ka30); $\gamma(\theta)$ in 1973Ka35; α_K(exp)=0.155 *5* (1972Ma63); $\gamma\gamma(\theta)$ in 1980Ba19. δ: Using the briccmixing code and the following data: K:L1:L2:L3:M:N:O(exp) (1972Ka30), α_K(exp) (1972Ma63) and δ=+0.038 *3* (1973Ka35) and 0.028 *42* (1980Ba19).
		581.97 *8*	3.59 *18*	2200.13	7^-	E2		0.02061 *29*	α(K)=0.01516 *21*; α(L)=0.00413 *6*; α(M)=0.001015 *14* α(N)=0.000257 *4*; α(O)=4.90×10^{-5} *7*; α(P)=4.06×10^{-6} *6* Mult.: K:L1+L2:M:N=1.13 *7*:0.352 *60*: 0.057 *15*:0.020 *11*: (1972Ka30).
		784.58 *7*	3.97 *7*	1997.61	4^+	E1		0.00391 *5*	α(K)=0.00326 *5*; α(L)=0.000504 *7*; α(M)=0.0001166 *16* α(N)=2.95×10^{-5} *4*; α(O)=5.83×10^{-6} *8*; α(P)=5.93×10^{-7} *8* Mult.: K:L1+L2:L3=0.216 *46*:0.108 *27*: 0.0242 *98* (1972Ka30).
		1098.26 *7*	100.0 *11*	1683.94	4^+	E1		2.12×10^{-3} *3*	α(K)=0.001768 *25*; α(L)=0.000268 *4*; α(M)=6.18×10^{-5} *9* α(N)=1.562×10^{-5} *22*; α(O)=3.10×10^{-6} *4*; α(P)=3.22×10^{-7} *5* Mult.: K:L1+L2:L3:M:N=3.60 *19*:0.472 *26*: 0.0207 *32*:0.120 *9*: 0.0310 *45* (1972Ka30); α_K(exp)=0.0021 *2* (1972Ma63); $\gamma(\theta)$ (1993Bl02).
2826.28	$(4)^-$	44.110 *18*	6.7 *8*	2782.15	5^-	M1(+E2)	0.04 *4*	19.4 *13*	α(L)=14.8 *10*; α(M)=3.49 *26* α(N)=0.89 *7*; α(O)=0.176 *12*; α(P)=0.0185 *4*

$^{206}_{82}Pb_{124}$-20

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
									Mult.,δ: L1:L2:M=12.2 *15*:1.37 *40*: 2.61 *84* (1972Ka30); δ using the briccmixing code.
2826.28	(4)$^-$	434.89 *10*	20.5 *18*	2391.32?		M1,E2		0.10 *6*	α(K)=0.08 *5*; α(L)=0.016 *6*; α(M)=0.0038 *13* α(N)=9.7×10^{-4} *32*; α(O)=1.9×10^{-4} *7*; α(P)=1.8×10^{-5} *9*
		442.14 *10*	34 *4*	2384.13	6$^-$	(E2)		0.0398 *6*	Mult.: α_K(exp)=0.049 *17* (1972Ma63). α(K)=0.0270 *4*; α(L)=0.00960 *13*; α(M)=0.002407 *34* α(N)=0.000609 *9*; α(O)=0.0001143 *16*; α(P)=8.45×10^{-6} *12*
		1142.37 *10*	100 *5*	1683.94	4$^+$	E1		1.98×10^{-3} *3*	Mult.: α_K(exp)=0.038 *16* (1972Ma63). α(K)=0.001650 *23*; α(L)=0.0002495 *35*; α(M)=5.75×10^{-5} *8* α(N)=1.454×10^{-5} *20*; α(O)=2.89×10^{-6} *4*; α(P)=3.00×10^{-7} *4*; α(IPF)=3.57×10^{-6} *5*
		2022.80 *20*	11.6 *18*	803.043	2$^+$	M2,E3		0.0054 *18*	Mult.: α_K(exp)=0.0016 *4* (1972Ma63). α(K)=0.0043 *15*; α(L)=7.4×10^{-4} *23*; α(M)=1.7×10^{-4} *5* α(N)=4.4×10^{-5} *14*; α(O)=8.8×10^{-6} *28*; α(P)=9.3×10^{-7} *31*; α(IPF)=0.000187 *25*
2864.52	7$^-$	480.38 *10*	91 *9*	2384.13	6$^-$	M1(+E2)	<0.4	0.114 *6*	Mult.: α_K(exp)=0.0047 *27* (1972Ma63). α(K)=0.093 *5*; α(L)=0.0160 *7*; α(M)=0.00374 *15* α(N)=0.00095 *4*; α(O)=0.000189 *8*; α(P)=2.01×10^{-5} *10*
		664.17 *10*	100 *5*	2200.13	7$^-$	M1(+E2)	<0.9	0.043 *8*	Mult.,δ: K:L1+L2=1.26 *9*:0.204 *39* (1972Ka30); α_K(exp)=0.113 *22* (1972Ma63); γ(θ) (1993Bl02). α(K)=0.035 *7*; α(L)=0.0061 *9*; α(M)=0.00143 *21* α(N)=0.00036 *5*; α(O)=7.2×10^{-5} *11*; α(P)=7.6×10^{-6} *13*
		1180.70 *10*	68 *7*	1683.94	4$^+$	[E3]		0.01066 *15*	Mult.,δ: K:L1+L2:M=0.540 *95*:0.088 *22*: 0.0221 *60* (1972Ka30); α_K(exp)=0.044 *11* (1972Ma63); γ(θ) in 1993Bl02 consistent with ΔJ=0 transition. α(K)=0.00813 *11*; α(L)=0.001918 *27*; α(M)=0.000467 *7* α(N)=0.0001186 *17*; α(O)=2.303×10^{-5} *32*; α(P)=2.168×10^{-6} *30*; α(IPF)=7.28×10^{-7} *10*
2929.06	4$^+$	1588.59[#] *8*	100[#]	1340.46	3$^+$	M1		0.00562 *8*	α(K)=0.00451 *6*; α(L)=0.000734 *10*; α(M)=0.0001708 *24* α(N)=4.34×10^{-5} *6*; α(O)=8.67×10^{-6} *12*; α(P)=9.34×10^{-7} *13*; α(IPF)=0.0001584 *22*
2939.51	6$^-$	157.52 *10*	22.6 *25*	2782.15	5$^-$	M1(+E2)	<0.32	2.49 *8*	Mult.: From γ(θ) in 1993Bl02. α(K)=2.01 *9*; α(L)=0.370 *10*; α(M)=0.0874 *30* α(N)=0.0222 *7*; α(O)=0.00439 *12*; α(P)=0.000451 *10*
		555.30 *10*	23.9 *25*	2384.13	6$^-$	M1+E2	1.0 *+8−4*	0.052 *16*	Mult.,δ: K:L1:L2:M=6.4 *13*:1.03 *12*: 0.123 *51*: 0.234 *59* (1972Ka30); α_K(exp)=1.44 *50* (1972Ma63); δ using the briccmixing code. α(K)=0.042 *13*; α(L)=0.0080 *17*; α(M)=0.0019 *4*

$^{206}_{82}Pb_{124}$-21

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
									α(N)=0.00048 *10*; α(O)=9.5×10^{-5} *20*; α(P)=9.4×10^{-6} *26* Mult.,δ: α_K(exp)=0.041 *13* (1972Ma63).
2939.51	6$^-$	739.24 *8*	100 *5*	2200.13	7$^-$	M1(+E2)	<0.5	0.0361 *27*	α(K)=0.0296 *23*; α(L)=0.00498 *32*; α(M)=0.00117 *7* α(N)=0.000296 *19*; α(O)=5.9×10^{-5} *4*; α(P)=6.3×10^{-6} *5* Mult.: K:L1+L2:M=0.622 *40*:0.142 *37*: 0.030 *13* (1972Ka30); α_K(exp)=0.032 *4* (1972Ma63); δ using the briccmixing code.
2954.5	8$^-$	296.2[@] *4*	68[@] *8*	2658.28	9$^-$	M1		0.442 *6*	α(K)=0.361 *5*; α(L)=0.0617 *9*; α(M)=0.01444 *21* α(N)=0.00367 *5*; α(O)=0.000731 *11*; α(P)=7.82×10^{-5} *11* Mult.: From γ(θ) in 1993Bl02.
		754.4[@] *4*	100[@] *8*	2200.13	7$^-$	M1		0.0368 *5*	α(K)=0.0302 *4*; α(L)=0.00503 *7*; α(M)=0.001173 *17* α(N)=0.000298 *4*; α(O)=5.95×10^{-5} *8*; α(P)=6.38×10^{-6} *9* Mult.: From γ(θ) in 1993Bl02.
3016.37	5$^-$	190.04 *3*	0.5 *4*	2826.28	(4)$^-$				
		234.26 *7*	5.40 *27*	2782.15	5$^-$	M1(+E2)	<0.19	0.832 *16*	α(K)=0.678 *14*; α(L)=0.1178 *17*; α(M)=0.0276 *4* α(N)=0.00702 *10*; α(O)=0.001398 *20*; α(P)=0.0001484 *26* Mult.: K:L1:L2:M:N=25.3 *12*:3.78 *21*: 0.404 *38*: 0.86 *16*: 0.200 *76* (1972Ka30); α_K(exp)=0.840 *85* (1972Ma63). δ: Using the briccmixing code and K:L1:L2:M:N(exp) data.
		632.25 *5*	100 *1*	2384.13	6$^-$	M1+E2	−0.12 *4*	0.0577 *9*	α(K)=0.0473 *8*; α(L)=0.00793 *12*; α(M)=0.001852 *28* α(N)=0.000470 *7*; α(O)=9.38×10^{-5} *14*; α(P)=1.006×10^{-5} *16* Mult.: K:L1:M:N:O=24.5 *12*:3.91 *45*: 1.11 *7*: 0.308 *23*: 0.112 *22* (1972Ka30); α_K(exp)=0.044 *3* (1972Ma63); γγ(θ) (1980Ba19) γ(θ) (1993Bl02). δ: Using the briccmixing code and the following data: K:L1:M:N(exp) (1972Ka30), α_K(exp) (1972Ma63) and δ=−0.12 *2* (1980Ba19, γγ(θ)).
		816.25 *10*	1.1 *4*	2200.13	7$^-$				
		1332.33 *10*	6.3 *3*	1683.94	4$^+$	E1		1.58×10^{-3} *2*	α(K)=0.001264 *18*; α(L)=0.0001896 *27*; α(M)=4.37×10^{-5} *6* α(N)=1.105×10^{-5} *15*; α(O)=2.196×10^{-6} *31*; α(P)=2.299×10^{-7} *32*; α(IPF)=6.78×10^{-5} *10* Mult.: α_K(exp)=0.0015 *3* (1972Ma63).
3122.37	(3$^+$)	1655.5[#] *6*	28[#] *7*	1466.80	2$^+$				
		2319.32[#] *17*	100[#] *10*	803.043	2$^+$				
3194.3	(1,2)	2391.0[#] *4*	65[#] *15*	803.043	2$^+$				
		3194.6[#] *5*	100[#] *19*	0.0	0$^+$				

$^{206}_{82}Pb_{124}$-22

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
3225.37	(6,7)$^-$	360.82 *6*	3.2 *27*	2864.52	7$^-$				
		443.20 *7*	6 *5*	2782.15	5$^-$				
		841.28 *7*	100 *5*	2384.13	6$^-$	M1+E2	0.6 *5*	0.023 *5*	α(K)=0.019 *4*; α(L)=0.0032 *6*; α(M)=0.00075 *14* α(N)=0.00019 *4*; α(O)=3.8×10^{-5} *7*; α(P)=4.0×10^{-6} *9* Mult.: K:L1:M:N=0.443 *45*:0.0730 *16*: 0.0154 *61*: 0.0166 *86* (1972Ka30); α_K(exp)=0.019 *3* (1972Ma63). δ: Using the briccmixing code and the following data: K:L1:M(exp) (1972Ka30) and α_K(exp) (1972Ma63).
		1025.30 *10*	22.9 *21*	2200.13	7$^-$	M1(+E2)	<0.9	0.0144 *23*	α(K)=0.0118 *19*; α(L)=0.00197 *29*; α(M)=0.00046 *7* α(N)=0.000117 *17*; α(O)=2.33×10^{-5} *34*; α(P)=2.5×10^{-6} *4* Mult.,δ: α_K(exp)=0.0143 *46* (1972Ma63).
3244.22	4$^-$	227.65[d] *20*	0.8 *8*	3016.37	5$^-$				
		1047.6[a]	18[a] *9*	2196.7	(3)$^+$				
		1246.46 *10*	22.3 *21*	1997.61	4$^+$	(E1)			α(K)=0.001417 *20*; α(L)=0.0002134 *30*; α(M)=4.91×10^{-5} *7* α(N)=1.243×10^{-5} *17*; α(O)=2.470×10^{-6} *35*; α(P)=2.58×10^{-7} *4*; α(IPF)=3.13×10^{-5} *4* Mult.: α_K(exp)=0.0025 *9* by the evaluator from Ice(K)[803γ] and Ice(K)[1246γ] in 1972Ka30, Iγ(803γ) and Iγ(1246γ) from 1972Ma63, and α(K,exp)[803γ]=0.00803 *11*.
		1560.30 *8*	100 *5*	1683.94	4$^+$	E1		1.37×10^{-3} *2*	α(K)=0.000968 *14*; α(L)=0.0001442 *20*; α(M)=3.32×10^{-5} *5* α(N)=8.39×10^{-6} *12*; α(O)=1.671×10^{-6} *23*; α(P)=1.759×10^{-7} *25*; α(IPF)=0.0002117 *30* Mult.: K:L1+L2=0.0485 *85*:0.0056 *28* (1972Ka30); α_K(exp)=0.00102 *23* by the evaluator from Ice(K)[803γ] and Ice(K)[1560γ] in 1972Ka30, Iγ(803γ) and Iγ(1560γ) from 1972Ma63, and α(K,exp)[803γ]=0.00803 *11*.
		1903.56 *10*	92 *4*	1340.46	3$^+$	E1		1.29×10^{-3} *2*	α(K)=0.000696 *10*; α(L)=0.0001030 *14*; α(M)=2.366×10^{-5} *33* α(N)=5.99×10^{-6} *8*; α(O)=1.193×10^{-6} *17*; α(P)=1.264×10^{-7} *18*; α(IPF)=0.000460 *6* Mult.: α_K(exp)=0.00071 *17* (1972Ma63).
		2441.21 *9*	1.3 *5*	803.043	2$^+$				Eγ: From the level energy difference. Eγ=2439.0 keV *4* in 1972Ma63.
3260.3	6$^+$	1576.4[@] *5*	100[@]	1683.94	4$^+$	E2		0.00291 *4*	α(K)=0.002312 *32*; α(L)=0.000391 *5*; α(M)=9.14×10^{-5} *13* α(N)=2.318×10^{-5} *32*; α(O)=4.58×10^{-6} *6*;

$^{206}_{82}Pb_{124}$-23

Adopted Levels, Gammas (continued)

$\gamma(^{206}Pb)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
									α(P)=4.71×10^{-7} *7*; α(IPF)=8.88×10^{-5} *13*
3279.18	5$^-$	34.954 *18*	0.11 *1*	3244.22	4$^-$	M1+E2	0.023 *18*	38.2 *12*	Mult.: From $\gamma(\theta)$ in 1993Bl02. α(L)=29.2 *9*; α(M)=6.86 *22* α(N)=1.74 *6*; α(O)=0.347 *10*; α(P)=0.0367 *6* Mult.,δ: L1:L2:M:N=55.6 *31*: 6.30 *41*: 13.9 *23*: 3.74 *61* (1972Ka30). δ was determined using the briccmixing code.
		262.71 *5*	19.3 *3*	3016.37	5$^-$	M1+E2	0.13 *10*	0.607 *17*	α(K)=0.495 *16*; α(L)=0.0855 *14*; α(M)=0.02005 *31* α(N)=0.00510 *8*; α(O)=0.001015 *17*; α(P)=0.0001079 *27* Mult.: K:L1:L2:M:N:O=208 *9*:33.9 *18*: 3.58 *20*: 7.93 *43*: 2.84 *17*: 0.507 *62* (1972Ka30); α_K(exp)=0.551 *35* (1972Ma63); δ: Using the briccmixing code and the following data: K:L1:L2:M(exp) (1972Ka30) and α_K(exp) (1972Ma63).
		339.85 *30*	0.8 *6*	2939.51	6$^-$				E_γ: Weak transition. $\Delta E\gamma$ was adjusted by the evaluator.
		452.84 *8*	1.00 *5*	2826.28	(4)$^-$	M1(+E2)	<0.27	0.137 *4*	α(K)=0.1120 *34*; α(L)=0.0191 *4*; α(M)=0.00447 *10* α(N)=0.001135 *26*; α(O)=0.000226 *5*; α(P)=2.41×10^{-5} *7* Mult.,δ: K:L1=2.56 *15*: 0.426 *42* (1972Ka30); α_K(exp)=0.131 *15* (1972Ma63). δ was determined using the briccmixing code.
		497.06 *4*	97.8 *10*	2782.15	5$^-$	M1+E2	−0.09 *5*	0.1090 *18*	α(K)=0.0893 *15*; α(L)=0.01508 *23*; α(M)=0.00352 *5* α(N)=0.000896 *14*; α(O)=0.0001786 *27*; α(P)=1.912×10^{-5} *31* Mult.: $\gamma(\theta)$ in 1973Ka35, 1993Bl02; $\gamma\gamma(\theta)$ in 1977Mc01, 1980Ba19; K:L1+L2:L3:M:N=169 *7*: 28.6 *14*: 0.189 *21*: 6.75 *35*: 2.10 *20* (1972Ka30); α_K(exp)=0.088 *5* (1972Ma63); δ: Using the briccmixing code and the following data: K:L1+L2:L3:M:N(exp) (1972Ka30), α_K(exp) (1972Ma63) and δ=−0.09 *2* (1973Ka35) and −0.02 *11* (1980Ba19); Other: δ=−0.194 *21* (1977Mc01).
		895.12 *5*	100.0 *10*	2384.13	6$^-$	M1+E2	−0.030 *6*	0.02363 *33*	α(K)=0.01943 *27*; α(L)=0.00322 *5*; α(M)=0.000750 *11* α(N)=0.0001905 *27*; α(O)=3.80×10^{-5} *5*; α(P)=4.09×10^{-6} *6* Mult.: $\gamma(\theta)$ in 1973Ka35, 1993Bl02; $\gamma\gamma(\theta)$ in 1977Mc01; K:L1+L2:M:N=34.0 *15*: 5.33 *28*: 1.51 *9*: 0.485 *34* (1972Ka30); α_K(exp)=0.0174 *18* (1972Ma63). δ: Using the briccmixing code and the following data: K:L1+L2:M(exp) (1972Ka30), α_K(exp) (1972Ma63) and δ=−0.030 *3* (1973Ka35) and 0.047 *25* (1977Mc01).
		1281.81 *10*	0.42 *4*	1997.61	4$^+$	[E1]		1.66×10^{-3} *2*	α(K)=0.001350 *19*; α(L)=0.0002030 *28*; α(M)=4.67×10^{-5} *7*

$^{206}_{82}Pb_{124}$-24

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ	α[c]	Comments
									α(N)=1.183×10^{-5} *17*; α(O)=2.351×10^{-6} *33*; α(P)=2.457×10^{-7} *34*; α(IPF)=4.49×10^{-5} *6*
3279.18	5$^-$	1595.27 *8*	32.0 *4*	1683.94	4$^+$	E1		1.35×10^{-3} *2*	α(K)=0.000933 *13*; α(L)=0.0001389 *19*; α(M)=3.19×10^{-5} *4* α(N)=8.08×10^{-6} *11*; α(O)=1.609×10^{-6} *23*; α(P)=1.695×10^{-7} *24*; α(IPF)=0.0002363 *33* Mult.: K:L1+L2:M:N=0.654 *33*: 0.0426 *55*: 0.0094 *29*: 0.0033 *17* (1972Ka30); α_K(exp)=0.0010 *1* (1972Ma63).
		2476.18 *9*	0.09 *1*	803.043	2$^+$	[E3]		0.00265 *4*	α(K)=0.001896 *27*; α(L)=0.000328 *5*; α(M)=7.71×10^{-5} *11* α(N)=1.956×10^{-5} *27*; α(O)=3.88×10^{-6} *5*; α(P)=4.04×10^{-7} *6*; α(IPF)=0.000320 *4*
3402.62	5$^-$	123.42 *3*	0.07 *1*	3279.18	5$^-$	M1+E2	0.18 *13*	5.05 *16*	α(K)=4.06 *22*; α(L)=0.75 *5*; α(M)=0.178 *15* α(N)=0.045 *4*; α(O)=0.0090 *6*; α(P)=0.000917 *14* Mult.: K:L1:L2:M=11.5 *24*: 2.58 *14*: 0.270 *76*: 0.51 *13* (1972Ka30); α_K(exp)=4.05 *110* (1972Ma63). δ: Using the briccmixing code and the following data: K:L1:L2:M(exp) (1972Ka30) and α_K(exp) (1972Ma63).
		158.386 *21*	0.26 *2*	3244.22	4$^-$	M1(+E2)	<0.2	2.50 *5*	α(K)=2.03 *4*; α(L)=0.359 *6*; α(M)=0.0844 *16* α(N)=0.0215 *4*; α(O)=0.00426 *7*; α(P)=0.000448 *7* Mult.: K:L1:L2:M=27.3 *15*: 4.39 *22*: 0.460 *90*: 1.14 *14* (1972Ka30); α_K(exp)=2.66 *37* (1972Ma63). δ: Using the briccmixing code and the following data: K:L1:L2:M(exp) (1972Ka30) and α_K(exp) (1972Ma63).
		386.20 *7*	1.62 *3*	3016.37	5$^-$	M1+E2	0.15 *11*	0.212 *7*	α(K)=0.173 *6*; α(L)=0.0295 *7*; α(M)=0.00692 *16* α(N)=0.00176 *4*; α(O)=0.000350 *9*; α(P)=3.73×10^{-5} *12* Mult.: K:L1:L2=11.0 *5*: 2.35 *15*: 0.177 *17* (1972Ka30); α_K(exp)=0.171 *12* (1972Ma63). δ: Using the briccmixing code and the following data: K:L1:L2(exp) (1972Ka30) and α_K(exp) (1972Ma63).
		462.92 *10*	0.17 *2*	2939.51	6$^-$	M1(+E2)	<0.7	0.117 *16*	α(K)=0.095 *14*; α(L)=0.0167 *17*; α(M)=0.0039 *4* α(N)=0.00100 *9*; α(O)=0.000198 *20*; α(P)=2.07×10^{-5} *26* Mult.: K:M:N=1.07 *11*: 0.0429 *86*: 0.0180 *60* (1972Ka30); α_K(exp)=0.16 *4* (1972Ma63). δ: Using the briccmixing code and the following data: K:M:N(exp) (1972Ka30) and α_K(exp) (1972Ma63).
		576.36 *10*	0.35 *3*	2826.28	(4)$^-$	M1(+E2)	<0.7	0.065 *9*	α(K)=0.053 *8*; α(L)=0.0092 *10*; α(M)=0.00217 *22* α(N)=0.00055 *6*; α(O)=0.000109 *12*; α(P)=1.15×10^{-5} *15* Mult.: K:L1+L2:M:N=0.892 *52*: 0.140 *30*: 0.045 *12*: 0.0110

$^{206}_{82}Pb_{124}$-25

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	E_γ[†]	I_γ[†]	E_f	J^π_f	Mult.[†]	δ	α[c]	Comments
								29 (1972Ka30); α_K(exp)=0.064 *10* (1972Ma63). δ: Using the briccmixing code and the following data: K:L12:M:N(exp) (1972Ka30) and α_K(exp) (1972Ma63).
3402.62	620.48 *5*	18.1 *2*	2782.15	5^-	M1+E2	−0.082 *22*	0.0609 *9*	α(K)=0.0500 *7*; α(L)=0.00837 *12*; α(M)=0.001955 *28* α(N)=0.000497 *7*; α(O)=9.91×10^{-5} *14*; α(P)=1.062×10^{-5} *15* Mult.: γγ(θ) in 1977Mc01, 1980Ba19; K:L1+L2:L3:NO=38.8 *17*: 6.39 *35*: 0.035 *14*: 0.471 *32* (1972Ka30); α_K(exp)=0.054 *3* (1972Ma63). δ: Using the briccmixing code and the following data: K:L12:L3:NO(exp) (1972Ka30), α_K(exp) (1972Ma63) and δ=−0.33 *29* (1980Ba19) and −0.082 *10* (1977Mc01).
	754.96 *7*	1.66 *3*	2647.69	3^-	E2		0.01172 *16*	α(K)=0.00904 *13*; α(L)=0.002035 *29*; α(M)=0.000492 *7* α(N)=0.0001247 *17*; α(O)=2.408×10^{-5} *34*; α(P)=2.174×10^{-6} *30* Mult.: K:L1+L2=0.571 *52*: 0.135 *45* (1972Ka30); α_K(exp)=0.0087 *10* (1972Ma63).
	1018.63 *8*	23.8 *3*	2384.13	6^-	M1+E2	−0.019 *7*	0.01696 *24*	α(K)=0.01395 *20*; α(L)=0.002300 *32*; α(M)=0.000536 *8* α(N)=0.0001362 *19*; α(O)=2.72×10^{-5} *4*; α(P)=2.92×10^{-6} *4* Mult.: γγ(θ) in 1973Ka35,1993Bl02 and γγ(θ) in 1977Mc01; K:L1+L2:M:N=13.5 *7*: 2.78 *14*: 0.671 *36*: 0.206 *15* (1972Ka30); α_K(exp)=0.0142 *10* (1972Ma63). δ: Using the briccmixing code and the following data: K:L12:M:N(exp) (1972Ka30), α_K(exp) (1972Ma63) and δ=−0.018 *3* (1973Ka35) and 0.055 *20* (1977Mc01).
	1202.58 *10*	0.33 *2*	2200.13	7^-	E2		0.00468 *7*	α(K)=0.00378 *5*; α(L)=0.000686 *10*; α(M)=0.0001619 *23* α(N)=4.10×10^{-5} *6*; α(O)=8.07×10^{-6} *11*; α(P)=8.03×10^{-7} *11*; α(IPF)=4.06×10^{-6} *6* Mult.: K:L1+L2=0.0397 *73*: 0.0299 *79* (1972Ka30).
	1405.01 *8*	4.50 *8*	1997.61	4^+	E1		1.49×10^{-3} *2*	α(K)=0.001154 *16*; α(L)=0.0001728 *24*; α(M)=3.98×10^{-5} *6* α(N)=1.006×10^{-5} *14*; α(O)=2.001×10^{-6} *28*; α(P)=2.099×10^{-7} *29*; α(IPF)=0.0001091 *15* Mult.: K:L1+L2:M=0.249 *14*: 0.0227 *48*: 0.0065 *25* (1972Ka30); α_K(exp)=0.0014 *2* (1972Ma63).
	1718.70 *7*	100.0 *11*	1683.94	4^+	E1		1.31×10^{-3} *2*	α(K)=0.000824 *12*; α(L)=0.0001223 *17*; α(M)=2.81×10^{-5} *4* α(N)=7.12×10^{-6} *10*; α(O)=1.417×10^{-6} *20*; α(P)=1.497×10^{-7} *21*; α(IPF)=0.000326 *5* Mult.: K:L1+L2:M:N=3.12 *16*: 0.142 *8*: 0.0371 *24*: 0.0092 *13* (1972Ka30); α_K(exp)=0.00078 *5* (1972Ma63). α: Measured internal pair conversion coefficient β_π=3.06 x 10^{-4} *15* (1998Wu02).

$^{206}_{82}Pb_{124}$-26

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	α[c]	Comments
3402.62	5⁻	2599.6 *2*	0.41 *3*	803.043	2⁺	(E3)		α(K)=0.001727 *24*; α(L)=0.000296 *4*; α(M)=6.93×10⁻⁵ *10* α(N)=1.760×10⁻⁵ *25*; α(O)=3.49×10⁻⁶ *5*; α(P)=3.65×10⁻⁷ *5*; α(IPF)=0.000365 *5* Mult.: α_K(exp)=0.0014 *5* (1972Ma63) allow M1 or E3, but the decay scheme requires E3.
3453.4	4⁺	2650.3[#] *7*	100[#]	803.043	2⁺			
3484.8		1699.5[#] *9*	54[#] *14*	1784.07	2⁺			
		2682.0[#] *4*	100[#] *18*	803.043	2⁺			
3516	(4⁺)	2713[a] *3*	100[a]	803.043	2⁺			
3562.83	5⁻	283.75 *6*	0.25 *20*	3279.18	5⁻			
		780.66 *10*	2.5 *15*	2782.15	5⁻			
		915.0 *1*	1.53 *15*	2647.69	3⁻	E2	0.00793 *11*	α(K)=0.00626 *9*; α(L)=0.001269 *18*; α(M)=0.000303 *4* α(N)=7.69×10⁻⁵ *11*; α(O)=1.498×10⁻⁵ *21*; α(P)=1.418×10⁻⁶ *20* Mult.: α_K(exp)=0.0061 *16* (1972Ma63).
		1565.34 *8*	15.1 *7*	1997.61	4⁺	E1	1.36×10⁻³ *2*	α(K)=0.000962 *13*; α(L)=0.0001434 *20*; α(M)=3.30×10⁻⁵ *5* α(N)=8.35×10⁻⁶ *12*; α(O)=1.662×10⁻⁶ *23*; α(P)=1.750×10⁻⁷ *25*; α(IPF)=0.0002152 *30* Mult.: K:L1+L2=0.0358 *56*: 0.0037 *20* (1972Ka30). I_γ: Other: 42 *14* in ^{206}Pb(n,n′γ).
		1878.65 *8*	100 *2*	1683.94	4⁺	E1	1.29×10⁻³ *2*	α(K)=0.000711 *10*; α(L)=0.0001053 *15*; α(M)=2.419×10⁻⁵ *34* α(N)=6.12×10⁻⁶ *9*; α(O)=1.220×10⁻⁶ *17*; α(P)=1.292×10⁻⁷ *18*; α(IPF)=0.000442 *6* Mult.: K:L1+L2=0.150 *11*: 0.0381 *91* (1972Ka30); α_K(exp)=0.00060 *6* (1972Ma63).
		2759.6 *10*	0.69 *10*	803.043	2⁺			
3606.2	2⁺	957.5[ad] *9*	64[a] *13*	2647.69	3⁻			
		1822.1[#] *3*	100[#]	1784.07	2⁺			
3683.6		1899.6[ad] *12*	100[a] *39*	1784.07	2⁺			
		2880[ad] *3*	44[a] *22*	803.043	2⁺			
3742.74	1	2041[ad] *2*	48[a] *13*	1704.45	1⁺			
		2941[ad] *3*	16[a] *6*	803.043	2⁺			
		3742.7[&] *2*	100[&] *10*	0.0	0⁺			
3776.0	5⁻	515.7[a]	100[a] *25*	3260.3	6⁺			
		1778.4 *11*	10 *5*	1997.61	4⁺	(E1)	1.30×10⁻³ *2*	α(K)=0.000778 *11*; α(L)=0.0001154 *16*; α(M)=2.65×10⁻⁵ *4* α(N)=6.72×10⁻⁶ *9*; α(O)=1.338×10⁻⁶ *19*; α(P)=1.415×10⁻⁷ *20*; α(IPF)=0.000369 *5* E_γ,Mult.: From 1993Bl02 in ^{204}Hg(α,2nγ).

$^{206}_{82}Pb_{124}$-27

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	α[c]	Comments
								I_γ: From 1982DiZT in ^{206}Pb(n,nγ). Other: 100 (1993Bl02) ^{204}Hg(α,2nγ).
3776.0	5⁻	2092.1[a] *12*	69[a] *19*	1683.94	4⁺			
3779.9		1995.5[ad] *12*	54[a] *26*	1784.07	2⁺			
		2314[ad] *2*	100[a] *26*	1466.80	2⁺			
		2977[ad] *3*	12[a] *8*	803.043	2⁺			
3943.7		1520.0[ad] *11*	100[a] *37*	2423.36	2⁺			
		2605[ad] *3*	78[a] *48*	1340.46	3⁺			
		3141[ad] *3*	78[a] *19*	803.043	2⁺			
3957.5	10⁺	1299.1[@] *3*	100[@] *4*	2658.28	9⁻	E1	1.63×10^{-3} *2*	α(K)=0.001320 *18*; α(L)=0.0001983 *28*; α(M)=4.56×10^{-5} *6* α(N)=1.155×10^{-5} *16*; α(O)=2.296×10^{-6} *32*; α(P)=2.401×10^{-7} *34*; α(IPF)=5.21×10^{-5} *7* Mult.: From α(K)exp=0.0015 *4* (1977Dr08); γ(θ) in 1993Bl02 and 1994Po20 consistent with D transition.
		1757.7[@] *5*	≤2.5[@]	2200.13	7⁻	[E3]	0.00470 *7*	α(K)=0.00369 *5*; α(L)=0.000707 *10*; α(M)=0.0001682 *24* α(N)=4.27×10^{-5} *6*; α(O)=8.41×10^{-6} *12*; α(P)=8.47×10^{-7} *12*; α(IPF)=8.46×10^{-5} *12*
3963	4⁺	3963[a] *3*	100[a]	0.0	0⁺			E_γ: Note, 3963γ to 0⁺ would imply E4 multipolarity.
3971	2⁻	3168[ad] *3*	100[a] *14*	803.043	2⁺			
		3971[a] *3*	55[a] *17*	0.0	0⁺			
3989		2305[ad] *2*	100[a] *27*	1683.94	4⁺			
		3186[a] *3*	59[a] *14*	803.043	2⁺			
3997		3997[a] *3*	100[a]	0.0	0⁺			
4000.7		1764.2[#] *7*	100[#]	2236.52				
4005.2	(4⁺)	1075.9[ad] *9*	88[a] *47*	2929.06	4⁺			
		2008.0[ad] *12*	100[a] *26*	1997.61	4⁺			
4010		3207[a] *3*	100[a]	803.043	2⁺			
4027.3	12⁺	69.7[@] *5*	2.1[@] *3*	3957.5	10⁺	E2	32.1 *12*	α(L)=23.9 *9*; α(M)=6.32 *24* α(N)=1.59 *6*; α(O)=0.282 *11*; α(P)=0.0102 *4* B(E2)(W.u.)=0.29 *3* Mult.: L:M(exp)=3.5 *7* (1977Dr08).
		1369.0[@] *3*	100[@] *4*	2658.28	9⁻	E3	0.00776 *11*	α(K)=0.00604 *8*; α(L)=0.001300 *18*; α(M)=0.000313 *4* α(N)=7.96×10^{-5} *11*; α(O)=1.555×10^{-5} *22*; α(P)=1.507×10^{-6} *21*; α(IPF)=1.142×10^{-5} *16* B(E3)(W.u.)=0.155 *10* Mult.: K:L:M(exp)=0.093 *1*:0.022 *3*:0.0085 *3*; α(K)exp=0.0055 *11* (1977Dr08).

$^{206}_{82}Pb_{124}$-28

Adopted Levels, Gammas (continued)

$\gamma(^{206}Pb)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Comments
4035		3232[a] *3*	100[a]	803.043	2^+	
4045	$(3^-,4^-)$	3242[a] *3*	100[a]	803.043	2^+	
4051		4051[a] *3*	100[a]	0.0	0^+	
4066	$(5)^-$	3263[a] *3*	100[a]	803.043	2^+	
4076	(2^+)	3273[a] *3*	100[a]	803.043	2^+	
4115.9	2^+	995.1[ad] *9*	24[a] *8*	3122.37	(3^+)	
		2775.0[ad] *14*	71[a] *16*	1340.46	3^+	
		4115.9[#] *6*	100[#] *26*	0.0	0^+	
4146.1	1	4146.1[&] *7*	100[&]	0.0	0^+	
4187		2503[ad] *3*	100[a] *24*	1683.94	4^+	
		3384[a] *3*	59[a] *24*	803.043	2^+	
4212		4212[a] *3*	100[a]	0.0	0^+	
4238.2	(5^-)	1854.1[a] *11*	100[a]	2384.13	6^-	
4328.05	1^-	2627[ad] *3*	66[a] *48*	1704.45	1^+	
		4328.0[&] *1*	100[&]	0.0	0^+	E_γ: Other: 4330.7 keV *19* in ^{206}Pb(n,n′γ).
4340	4^+	4340[a] *3*	100[a]	0.0	0^+	
4347	6^+	3544[a] *3*	100[a]	803.043	2^+	
4385.0	(5^-)	2701[ad] *3*	100[a]	1683.94	4^+	
4410		2627[ad] *3*	23[a] *17*	1784.07	2^+	
		3607[a] *3*	100[a] *18*	803.043	2^+	
4420		2717[ad] *3*	100[a] *33*	1704.45	1^+	
		3079[ad] *3*	71[a] *13*	1340.46	3^+	
		4420[a] *4*	18[a] *7*	0.0	0^+	
4427.1?		3624[ad] *3*	100[a]	803.043	2^+	
4433.4		1239.0[a] *10*	100[a] *29*	3194.3	(1,2)	
		3631[a] *3*	92[a] *46*	803.043	2^+	
		4434[a] *4*	42[a] *21*	0.0	0^+	
4459	(5^-)	3656[a] *3*	100[a]	803.043	2^+	
4469.3		2235[ad] *2*	100[a] *41*	2236.52		
		4469.2[a] *19*	38[a] *9*	0.0	0^+	
4483.6	2^+	4483.5[&] *5*	100[&]	0.0	0^+	E_γ: Other: 4482.9 keV *19* from ^{206}Pb(n,n′γ).
4512		3709[a] *3*	100[a]	803.043	2^+	
4525	5^-	3722[a] *3*	100[a]	803.043	2^+	
4603.86	1^-	3141[d] *3*		1466.80	2^+	E_γ: From ^{206}Pb(n,n′γ).
		4603.8[&] *1*	100[&]	0.0	0^+	E_γ: Other: 4606 keV *4* in ^{206}Pb(n,n′γ).

$^{206}_{82}Pb_{124}$-29

Adopted Levels, Gammas (continued)

$\gamma(^{206}Pb)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	Comments
4648		3307[ad] *3*	100[a] *50*	1340.46	3^+		
		4648[a] *4*	27[a] *13*	0.0	0^+		
4657		2460[ad] *3*	100[a] *48*	2196.7	$(3)^+$		
		3854[a] *3*	74[a] *13*	803.043	2^+		
4675	$(2^+,3^+)$	3872[a] *3*	100[a]	803.043	2^+		
4690.76	1	4690.7[&] *2*	100[&]	0.0	0^+		
4697	$(3^-,4^-)$	2385[ad] *2*	100[a] *64*	2312	0^+		
		3894[a] *3*	100[a] *21*	803.043	2^+		
4717	$4^+,5$	4717[a] *4*	100[a]	0.0	0^+		
4730		2495[ad] *3*	20[a] *14*	2236.52			
		2583[ad] *3*	100[a] *39*	2148.96	2^+		
		3927[a] *3*	45[a] *16*	803.043	2^+		
4756		3953[a] *3*	100[a]	803.043	2^+		
4758.5	(10)	2100.2[@] *4*	100[@]	2658.28	9^-	D	Mult.: $\gamma(\theta)$ in 1993Bl02.
4763		4763[a] *4*	100[a]	0.0	0^+		
4778.3	1	3079[d] *3*		1704.45	1^+		E_γ: From ^{206}Pb(n,n′γ).
		4778.2[&] *5*	100[&] *7*	0.0	0^+		
4795	5^-	3992[a] *3*	100[a]	803.043	2^+		
4805.3	1	4805.2[&] *3*	100[&]	0.0	0^+		
4841.7	10^+	2183.4[@] *4*	100[@]	2658.28	9^-	D	Mult.: $\gamma(\theta)$ in 1993Bl02.
4848		4848[a] *4*	100[a]	0.0	0^+		
4914.1	(3^-)	4111[ad] *3*	100[a]	803.043	2^+		
4932.7	2	4932.6[&] *3*	100[&]	0.0	0^+		
4966.1	(3^-)	4163[ad] *3*	100[a]	803.043	2^+		
4971.16	1^-	4971.1[&] *1*	100[&]	0.0	0^+		E_γ: Other: 4972 keV *4* in ^{206}Pb(n,n′γ).
5037.87	1^-	5037.8[&] *1*	100[&] *5*	0.0	0^+		E_γ: Other: 5042 keV in ^{206}Pb(n,n′γ).
5089	3^+	4286 *3*	100	803.043	2^+		
5127.67	1	5127.6[&] *2*	100[&]	0.0	0^+		
5180		5180[a] *4*	100[a]	0.0	0^+		
5195	$(2^+,3^+)$	5195[a] *4*	100[a]	0.0	0^+		
5217.6	(12^+)	459.1[@d] *5*	12[@] *4*	4758.5	(10)		
		1190.3[@] *4*	100[@] *16*	4027.3	12^+	M1,E2	α(K)=0.0066 *28*; α(L)=0.0011 *4*; α(M)=2.6×10^{-4} *10* α(N)=6.7×10^{-5} *25*; α(O)=1.3×10^{-5} *5*; α(P)=1.4×10^{-6} *6*; α(IPF)=4.4×10^{-6} *13* Mult.: $\gamma(\theta)$ and linear polarization in 1994Po20, consistent with ΔJ=0.
5236.1		5236[a]	100[a]	0.0	0^+		

$^{206}_{82}Pb_{124}$-30

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	α[c]	Comments
5247	2^+	5247[ad] *4*	100[a]	0.0	0^+			
5276	(1^-)	4473[a] *4*	100[a]	803.043	2^+			
5282	$(2^+,3^-)$	5282[ad] *4*	100[a]	0.0	0^+			
5315	(2^+)	5315[a] *4*	100[a]	0.0	0^+			
5350		5350[ad] *4*	100[a]	0.0	0^+			
5377.3	1	4576 *4*		803.043	2^+			E_γ: From ^{206}Pb(n,n′γ).
		5377.2[&] *3*	100[&]	0.0	0^+			
5390		5390[a] *4*	100[a]	0.0	0^+			
5408.5	(1)	5408.4[&] *5*	100[&]	0.0	0^+			
5415	(4^+)	4612[ad] *4*	100[a]	803.043	2^+			
5459.1	1	5459.0[&] *5*	100[&]	0.0	0^+			
5470.28	$1^{(-)}$	5470.2[&] *1*	100[&]	0.0	0^+			
5513		5513[ad] *4*	100[a]	0.0	0^+			
5524.58	1	5524.5[&] *2*	100[&]	0.0	0^+			E_γ: Other: 5522 keV *4* in ^{206}Pb(n,n′γ).
5553.8	$(11)^+$	336.2[@] *4*	100[@] *25*	5217.6	(12^+)	D,Q		α(K)=0.15 *10*; α(L)=0.034 *9*; α(M)=0.0083 *19* α(N)=0.0021 *5*; α(O)=4.1×10^{-4} *11*; α(P)=3.7×10^{-5} *18* Mult.: γ(θ) in 1993Bl02.
		1526.6[@] *5*	67[@] *25*	4027.3	12^+	M1	0.00617 *9*	α(K)=0.00499 *7*; α(L)=0.000813 *11*; α(M)=0.0001891 *27* α(N)=4.80×10^{-5} *7*; α(O)=9.59×10^{-6} *13*; α(P)=1.034×10^{-6} *15*; α(IPF)=0.0001232 *17* Mult.: γ(θ) and linear polarization in 1994Po20.
5579.78	1^-	5579.7[&] *1*	100[&]	0.0	0^+			E_γ: Other: 5580 keV *4* in ^{206}Pb(n,n′γ).
5602	(2^+)	4799[a] *4*	100[a]	803.043	2^+			
5615.28	1^-	5615.2 *1*	100	0.0	0^+			E_γ: Other: 5618 keV *4* in ^{206}Pb(n,n′γ).
5692.98	1^-	5692.9[&] *1*	100[&]	0.0	0^+			
5721.8	1	5721.7[&] *6*	100[&]	0.0	0^+			
5732.09	1^-	5732.0[&] *1*	100[&]	0.0	0^+			
5741		4938[a] *4*	100[a]	803.043	2^+			
5761.39	1^+	5761.3[&] *1*	100[&]	0.0	0^+			
5775	(1^-)	4972[ad] *4*	100[a]	803.043	2^+			
5783.0	$(13)^+$	229.4[b]	9.2[b] *15*	5553.8	$(11)^+$	Q		α(K)=0.43 *30*; α(L)=0.117 *8*; α(M)=0.0289 *6* α(N)=0.00732 *17*; α(O)=0.00140 *9*; α(P)=1.1×10^{-4} *4* Mult.: From γ(θ) in 1994Po20.
		565.5[@] *5*	20[@] *7*	5217.6	(12^+)			
		1755.5[@] *4*	100[@] *20*	4027.3	12^+	M1	0.00450 *6*	α(K)=0.00350 *5*; α(L)=0.000568 *8*; α(M)=0.0001322 *19*

$^{206}_{82}Pb_{124}$-31

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	α[c]	Comments
								α(N)=3.36×10^{-5} *5*; α(O)=6.71×10^{-6} *9*; α(P)=7.23×10^{-7} *10*; α(IPF)=0.000263 *4* Mult.: From γ(θ) and linear polarization in 1994Po20.
5799.39	1$^+$	5799.3[&] *1*	100[&]	0.0	0$^+$			
5818.4	1$^-$	5818.3[&] *3*	100[&]	0.0	0$^+$			
5832		5029[ad] *4*	100[a]	803.043	2$^+$			
5845.89	1$^-$	5845.8[&] *1*	100[&]	0.0	0$^+$			E_γ: Other: 5840 keV *4* in ^{206}Pb(n,n′γ).
5857.09	1$^-$	5857.0[&] *1*	100[&]	0.0	0$^+$			
5902.49	1$^-$	5902.4[&] *1*	100[&]	0.0	0$^+$			
5936		5936[ad] *4*	100[a]	0.0	0$^+$			
5951.5	1	5951.4[&] *6*	100[&]	0.0	0$^+$			
5959.5	1	5959.4[&] *6*	100[&]	0.0	0$^+$			
5994		5994[a] *4*	100[a]	0.0	0$^+$			
5999.5	1	5999.4[&] *6*	100[&]	0.0	0$^+$			
6019.79	1	6019.7[&] *2*	100[&]	0.0	0$^+$			
6034.2	14$^+$	250.8[@] *5*	44[@] *11*	5783.0	(13)$^+$	M1	0.698 *11*	α(K)=0.570 *9*; α(L)=0.0977 *15*; α(M)=0.02288 *34* α(N)=0.00581 *9*; α(O)=0.001159 *17*; α(P)=0.0001239 *19* Mult.: From γ(θ) in 1993Bl02 and 1994Po20.
		816.5[@] *5*	100[@] *22*	5217.6	(12$^+$)	E2	0.00997 *14*	α(K)=0.00777 *11*; α(L)=0.001671 *24*; α(M)=0.000402 *6* α(N)=0.0001019 *14*; α(O)=1.975×10^{-5} *28*; α(P)=1.821×10^{-6} *26* Mult.: From γ(θ) in 1994Po20.
		2007.3[@] *5*	78[@] *11*	4027.3	12$^+$	Q		Mult.: From γ(θ) in 1993Bl02.
6100.4	(1)	6100.3[&] *6*	100[&]	0.0	0$^+$			
6110.8	2$^+$	6110.7[&] *10*	100[&]	0.0	0$^+$			
6149.2	1	6149.1[&] *5*	100[&]	0.0	0$^+$			
6185.9	2$^+$	6185.8[&] *6*	100[&]	0.0	0$^+$			
6197		6197[a] *4*	100[a]	0.0	0$^+$			
6200.1	1$^+$	6200.0[&] *8*	100[&]	0.0	0$^+$			E_γ: Other: 6197 keV *4* in ^{206}Pb(n,n′).
6236		6236[ad] *4*	100[a]	0.0	0$^+$			
6251		6251[a] *4*	100[a]	0.0	0$^+$			
6260		6260[a] *4*	100[a]	0.0	0$^+$			
6382.6	(14$^+$)	348.4[b]	100[b]	6034.2	14$^+$			
6409.21	1	6409.1[&] *2*	100[&]	0.0	0$^+$			
6419.91	(2$^+$)	6419.8[&] *2*	100[&]	0.0	0$^+$			

$^{206}_{82}Pb_{124}$-32

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	α[c]	Comments
6430.7	(15$^-$)	2403.4[@] *4*	100[@]	4027.3	12$^+$	(E3)	0.00276 *4*	α(K)=0.002008 *28*; α(L)=0.000350 *5*; α(M)=8.23×10^{-5} *12* α(N)=2.088×10^{-5} *29*; α(O)=4.14×10^{-6} *6*; α(P)=4.30×10^{-7} *6*; α(IPF)=0.000294 *4* Mult.: From γ(θ) in 1993Bl02.
6432.6	1	6432.5[&] *3*	100[&]	0.0	0$^+$			
6442.7	1	6442.6[&] *5*	100[&]	0.0	0$^+$			
6458.9	1	6458.8[&] *6*	100[&]	0.0	0$^+$			
6467.91	1	6467.8[&] *2*	100[&]	0.0	0$^+$			
6508.71	1$^-$	6508.6[&] *1*	100[&]	0.0	0$^+$			
6531.31	1	6531.2[&] *2*	100[&]	0.0	0$^+$			
6565.3	(15$^-$)	531.1[@] *4*	100[@]	6034.2	14$^+$	(E1)	0.00844 *12*	α(K)=0.00698 *10*; α(L)=0.001117 *16*; α(M)=0.000259 *4* α(N)=6.55×10^{-5} *9*; α(O)=1.287×10^{-5} *18*; α(P)=1.269×10^{-6} *18* Mult.: From γ(θ) and linear polarization in 1994Po20.
6692.0	1	6691.9[&] *3*	100[&]	0.0	0$^+$			
6723.62	1$^-$	6723.5[&] *1*	100[&]	0.0	0$^+$			
6819.82	1$^-$	6819.7[&] *1*	100[&]	0.0	0$^+$			
6851.4+x	(17$^-$)	286.1[@] *5*	100[@]	6565.3+x	(16$^-$)	M1	0.486 *7*	α(K)=0.397 *6*; α(L)=0.0678 *10*; α(M)=0.01588 *24* α(N)=0.00404 *6*; α(O)=0.000805 *12*; α(P)=8.61×10^{-5} *13* Mult.: From γ(θ) in 1994Po20.
6933.93	1	6933.8[&] *1*	100[&]	0.0	0$^+$			
7061.63	1$^{(-)}$	7061.5[&] *1*	100[&]	0.0	0$^+$			
7077.73	1	7077.6[&] *2*	100[&]	0.0	0$^+$			
7128.33	(1$^-$)	7128.2[&] *2*	100[&]	0.0	0$^+$			
7158.6	1	7158.5[&] *5*	100[&]	0.0	0$^+$			
7181.2	1	7181.1[&] *4*	100[&]	0.0	0$^+$			
7199.9	1	7199.8[&] *3*	100[&]	0.0	0$^+$			
7238.8	1	7238.7[&] *6*	100[&]	0.0	0$^+$			
7258.7	1	7258.6[&] *4*	100[&]	0.0	0$^+$			
7302.7	1	7302.6[&] *3*	100[&]	0.0	0$^+$			
7312.7	1	7312.6[&] *3*	100[&]	0.0	0$^+$			
7338.3	1	7338.2[&] *7*	100[&]	0.0	0$^+$			
7363.0	1	7362.9[&] *3*	100[&]	0.0	0$^+$			
7387.64	1	7387.5[&] *2*	100[&]	0.0	0$^+$			
7404.6	1	7404.5[&] *3*	100[&]	0.0	0$^+$			

$^{206}_{82}Pb_{124}$-33

Adopted Levels, Gammas (continued)

$\gamma(^{206}Pb)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	α[c]	Comments
7414.2	1	7414.1[&] *3*	100[&]	0.0	0^+			
7424.24	1	7424.1[&] *2*	100[&]	0.0	0^+			
7464.9	1	7464.8[&] *5*	100[&]	0.0	0^+			
7486.25	(1^-)	7486.1[&] *2*	100[&]	0.0	0^+			
7506.05	1	7505.9[&] *1*	100[&]	0.0	0^+			
7543.05	1	7542.9[&] *1*	100[&]	0.0	0^+			
7556.5	1	7556.4[&] *4*	100[&]	0.0	0^+			
7571.5	1	7571.4[&] *3*	100[&]	0.0	0^+			
7597.5	1	7597.3[&] *14*	100[&]	0.0	0^+			
7627.8	1	7627.6[&] *5*	100[&]	0.0	0^+			
7646.1	1	7645.9[&] *3*	100[&]	0.0	0^+			
7661.9+x	(18^-)	810.5[b]	100[b]	6851.4+x	(17^-)	D		Mult.: From $\gamma(\theta)$ in 1994Po20.
7669.9	1	7669.7[&] *3*	100[&]	0.0	0^+			
7715.7	1	7715.5[&] *4*	100[&]	0.0	0^+			
7759.2+x	(19^+)	97.3[b]	100[b]	7661.9+x	(18^-)	E1	0.467 *7*	α(K)=0.369 *5*; α(L)=0.0750 *11*; α(M)=0.01771 *25* α(N)=0.00442 *6*; α(O)=0.000828 *12*; α(P)=6.32×10^{-5} *9* B(E1)(W.u.)=1.91×10^{-5} *24*
7781.3	1	7781.1[&] *3*	100[&]	0.0	0^+			
7798.6	1	7798.4[&] *7*	100[&]	0.0	0^+			
7815.6	1	7815.4[&] *3*	100[&]	0.0	0^+			
7845.7	1	7845.5[&] *3*	100[&]	0.0	0^+			
7881.3	1	7881.1[&] *3*	100[&]	0.0	0^+			
7891.36	1	7891.2[&] *2*	100[&]	0.0	0^+			
7904.46	1	7904.3[&] *2*	100[&]	0.0	0^+			
7930.5	1	7930.3[&] *7*	100[&]	0.0	0^+			
7944.9	1	7944.7[&] *4*	100[&]	0.0	0^+			
7972	1	7972[&] *4*	[&]	0.0	0^+			
8001.8	1	8001.6[&] *3*	100[&]	0.0	0^+			
8046.7	1	8046.5[&] *4*	100[&]	0.0	0^+			
8080.0	1	8079.8[&] *7*	100[&]	0.0	0^+			
8081.8+x	(20)	322.6[b]	100[b]	7759.2+x	(19^+)			

$^{206}_{82}Pb_{124}$-34

Adopted Levels, Gammas (continued)

γ(^{206}Pb) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
8118.7	1	8118.5[&] *4*	100[&]	0.0	0^+
8705.6+x	(21)	623.8[b]	100[b]	8081.8+x	(20)

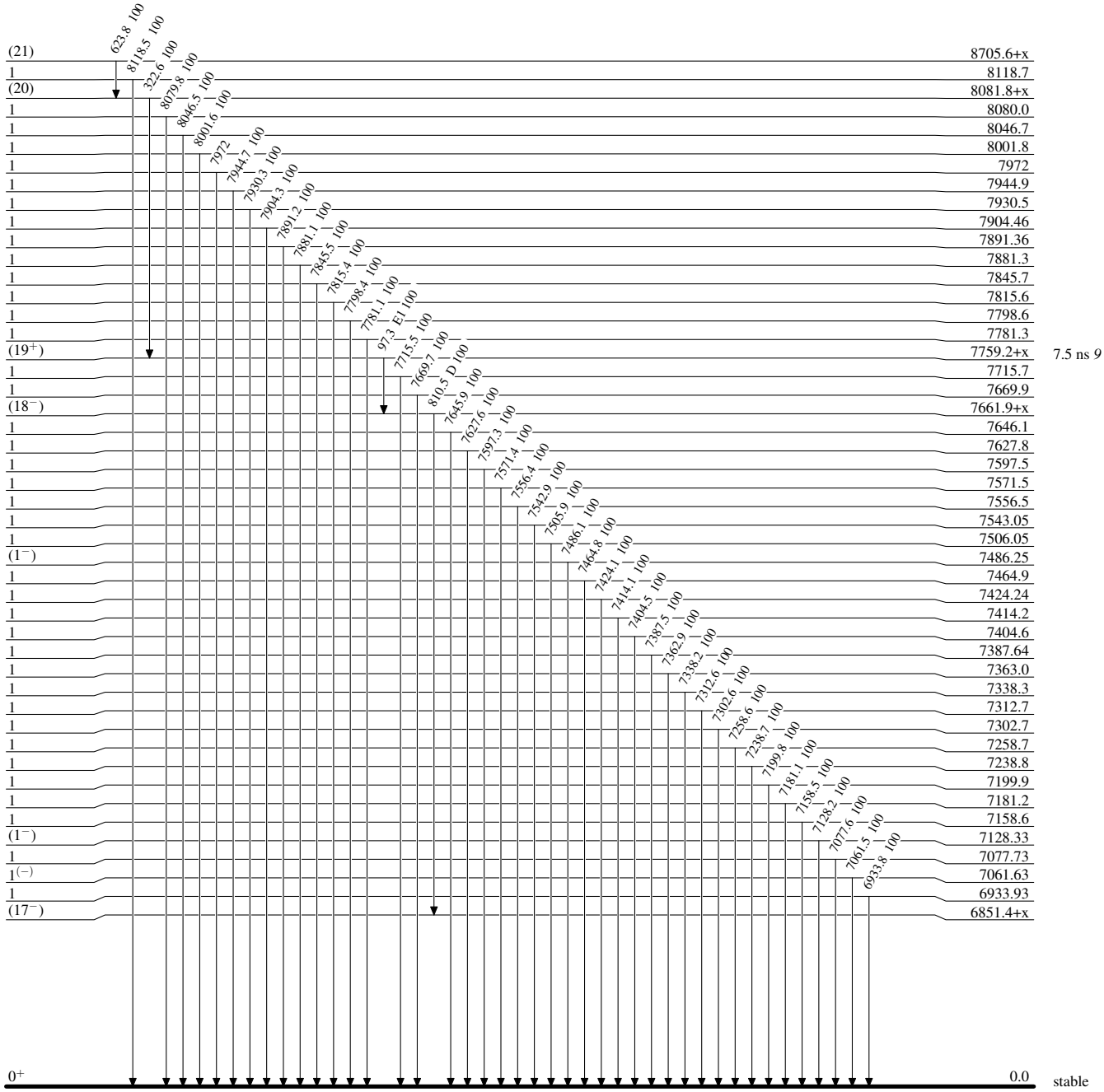
† From ^{206}Bi ε decay, unless otherwise stated.
‡ Eγ from ^{205}Pb(n,γ), E=thermal and Iγ from ^{206}Bi ε decay.
# From ^{205}Pb(n,γ), E=thermal.
@ From ^{204}Hg(α,2nγ).
& From ^{206}Pb(γ,γ′).
a From ^{206}Pb(n,n′γ).
b From ^{204}Hg(^{9}Be,α3nγ).
c Additional information 22.
d Placement of transition in the level scheme is uncertain.

$^{206}_{82}Pb_{124}$-35

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level



$^{206}_{82}Pb_{124}$

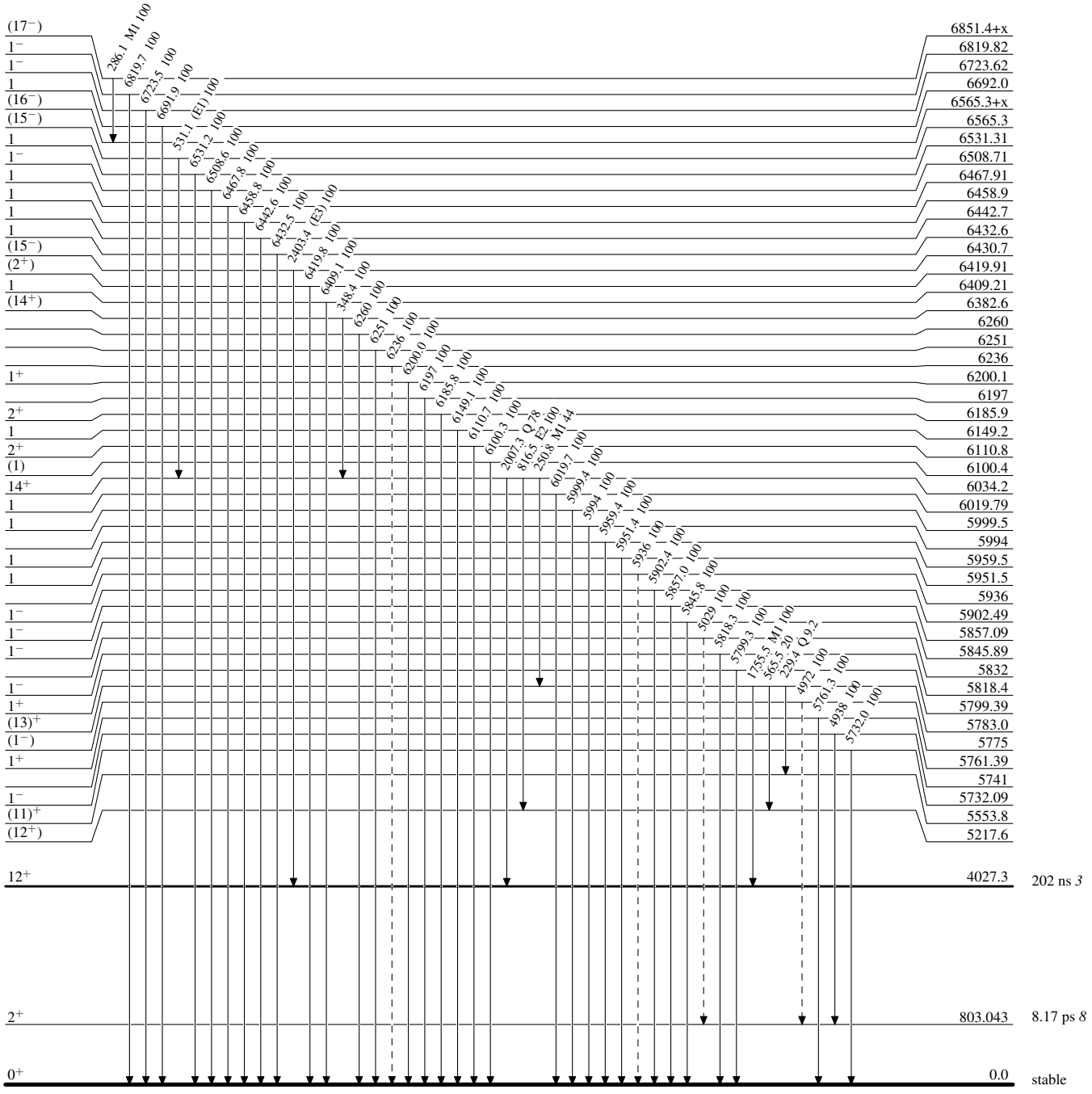
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{206}_{82}Pb_{124}$

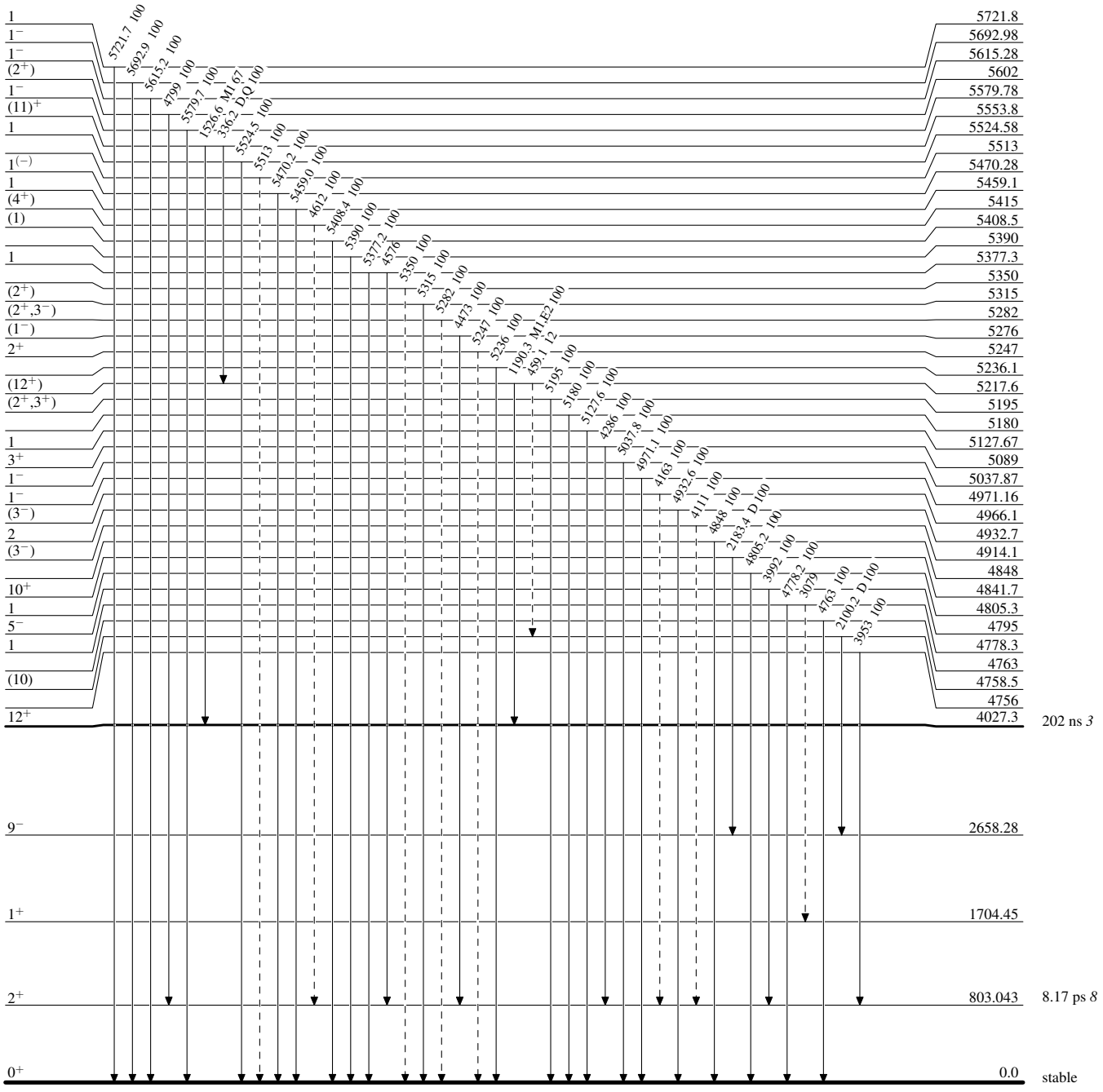
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{206}_{82}Pb_{124}$

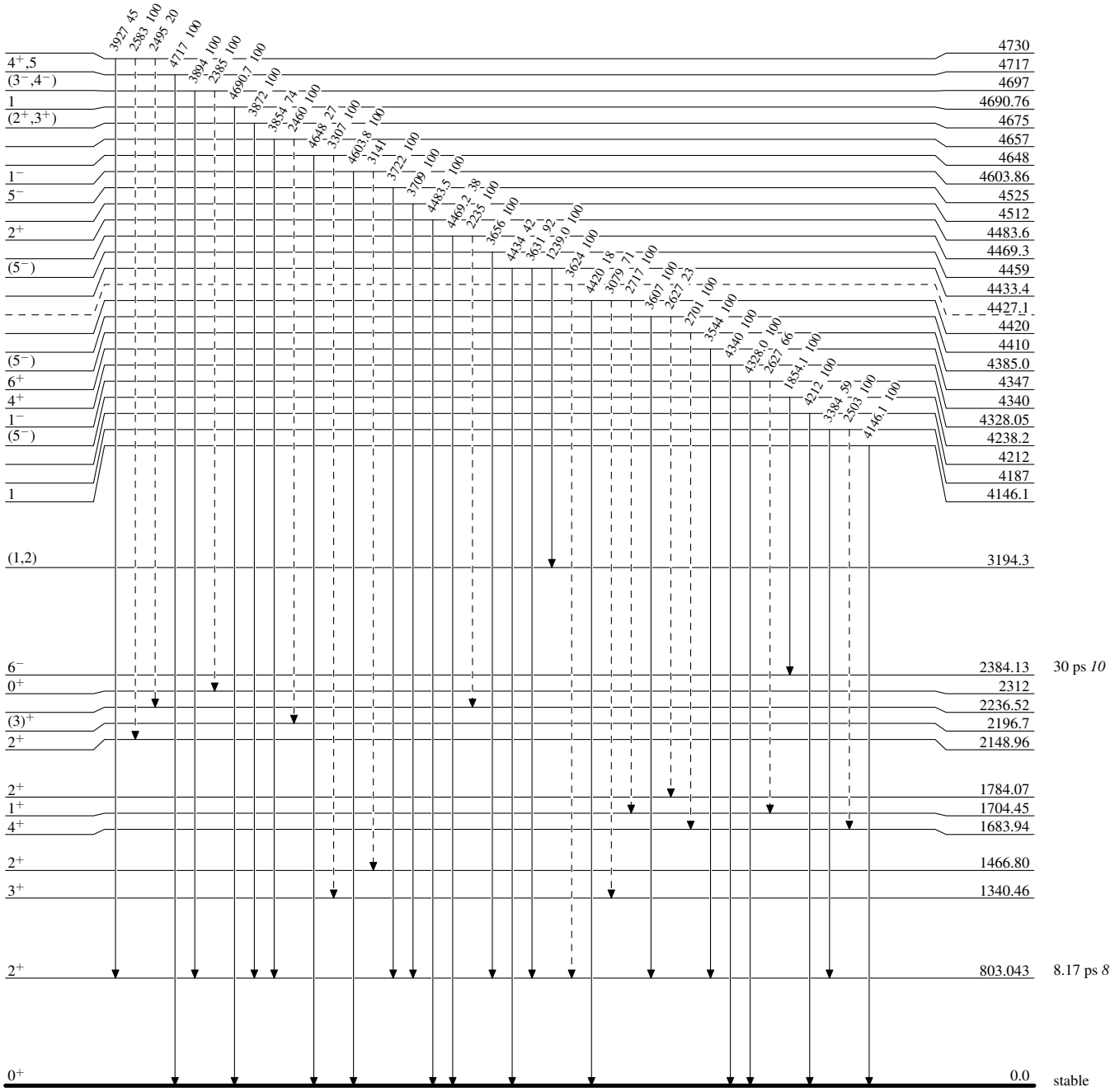
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{206}_{82}Pb_{124}$

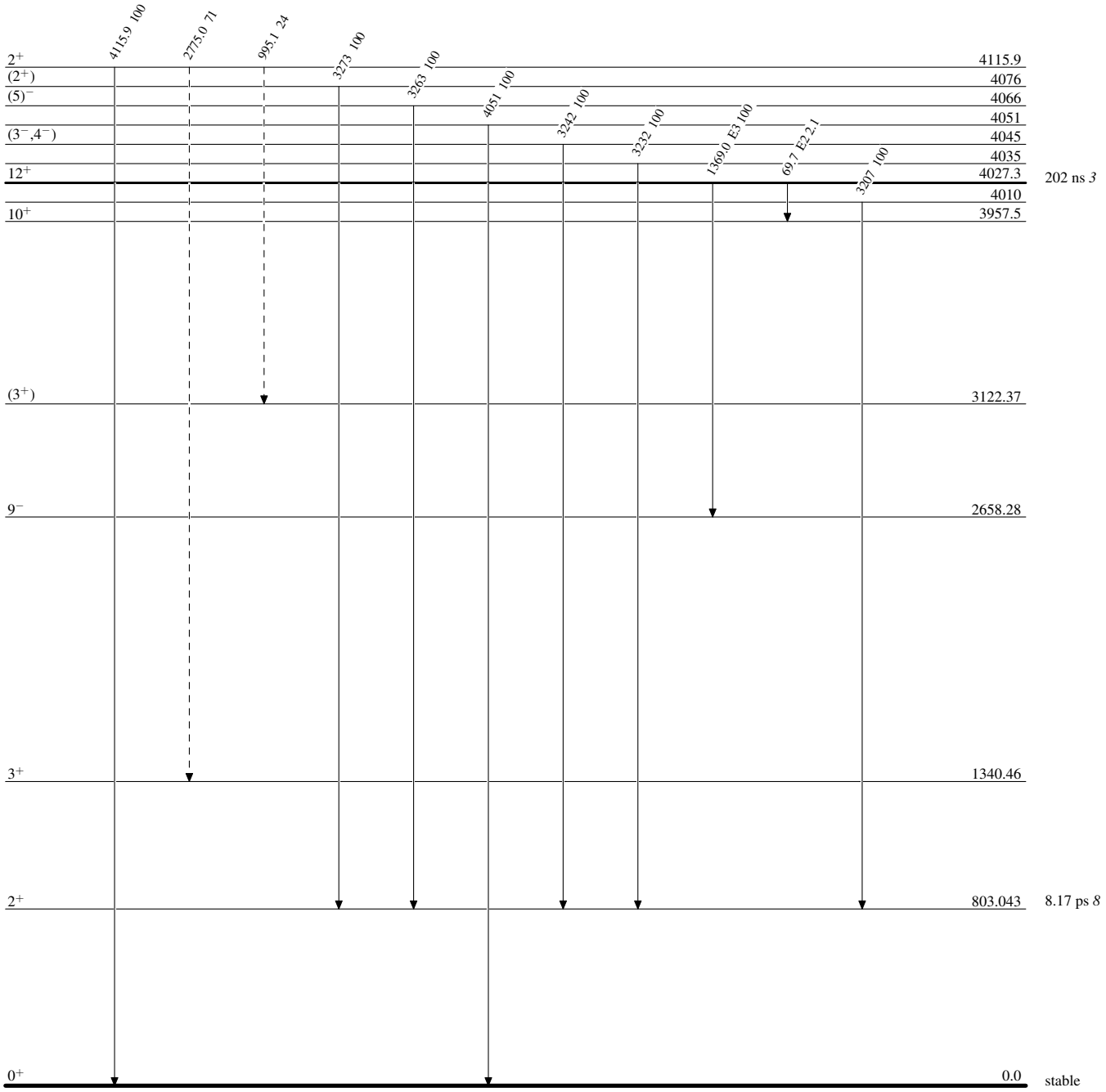
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

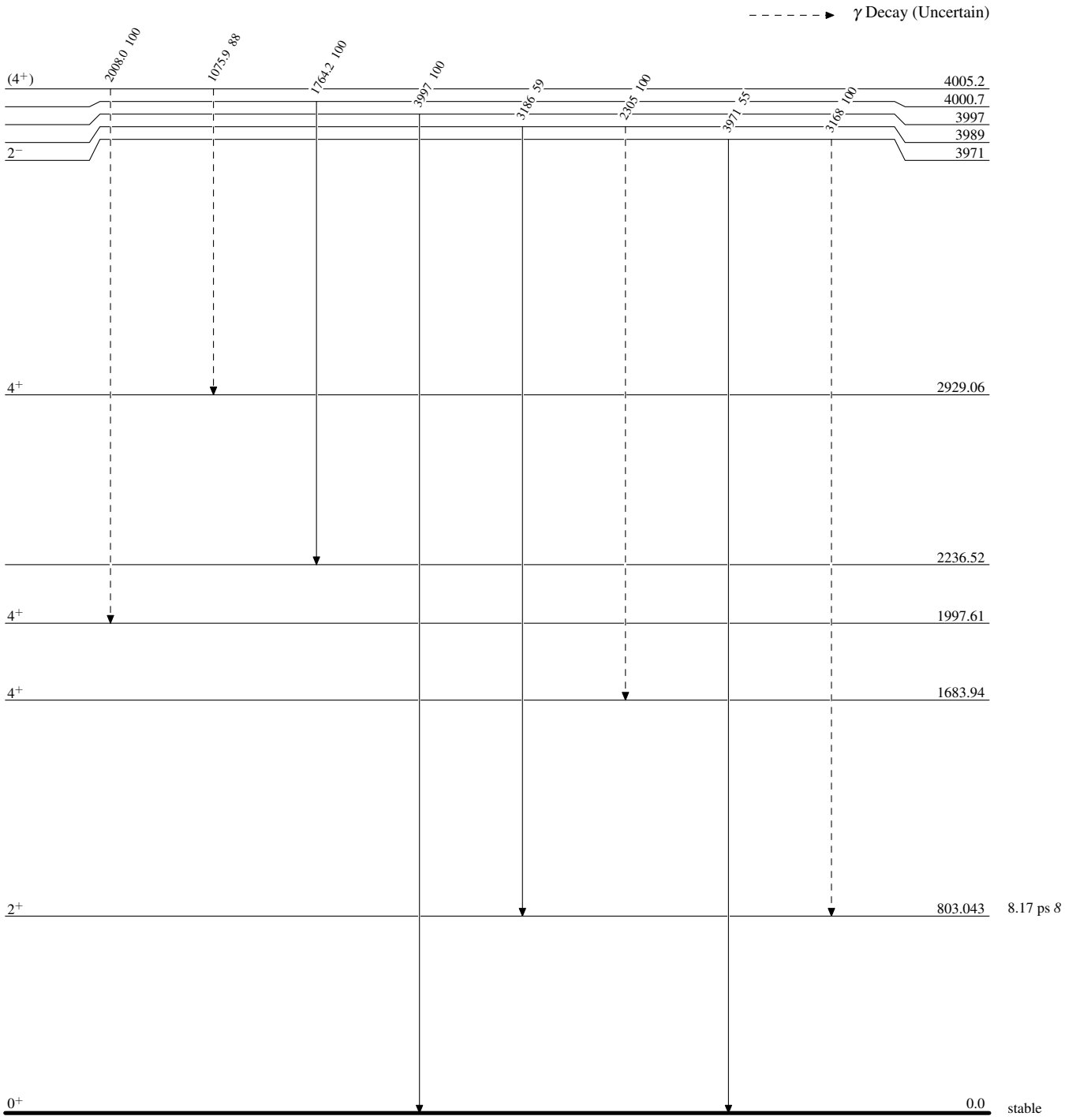


$^{206}_{82}Pb_{124}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{206}_{82}Pb_{124}$

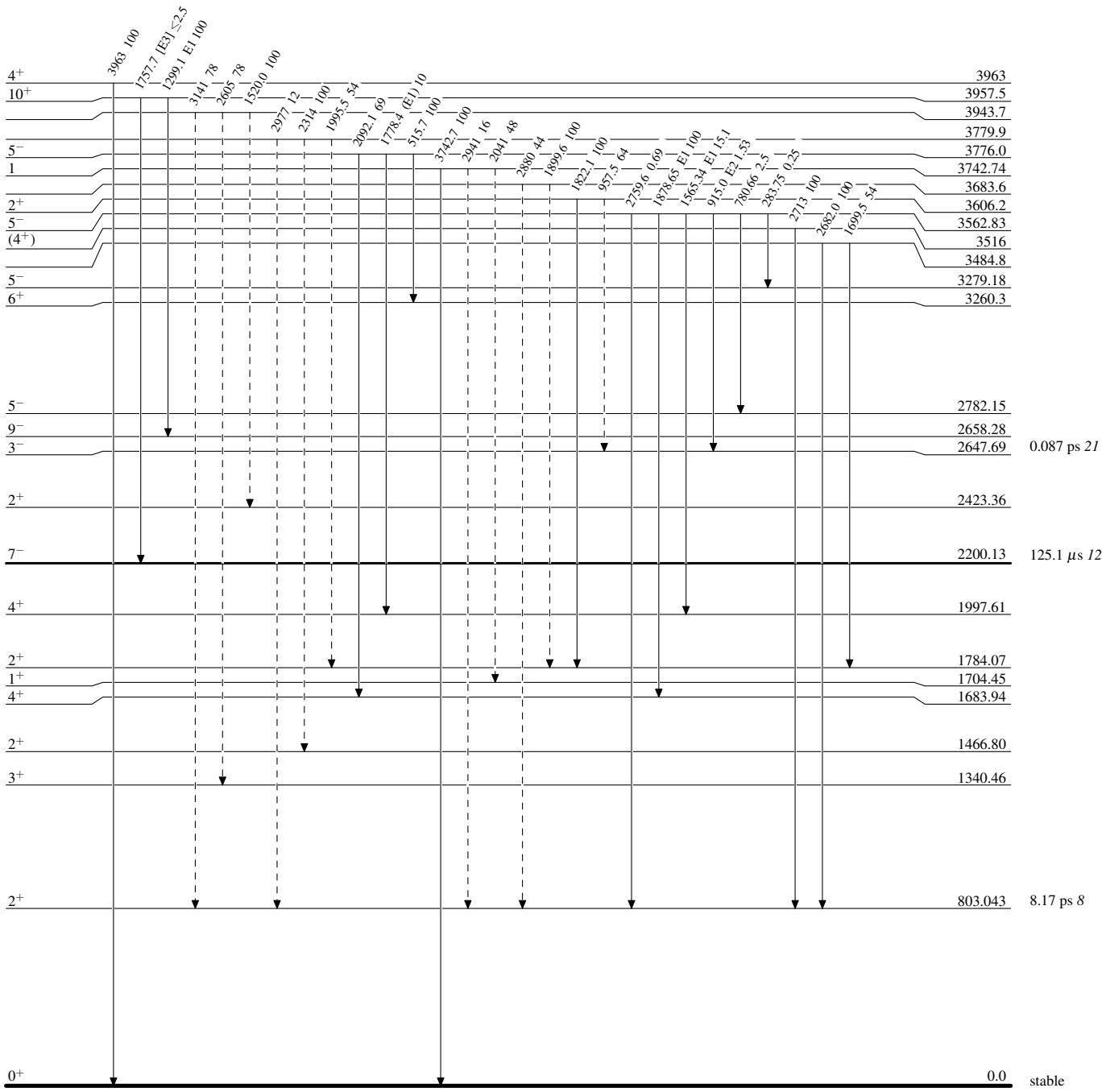
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{206}_{82}Pb_{124}$

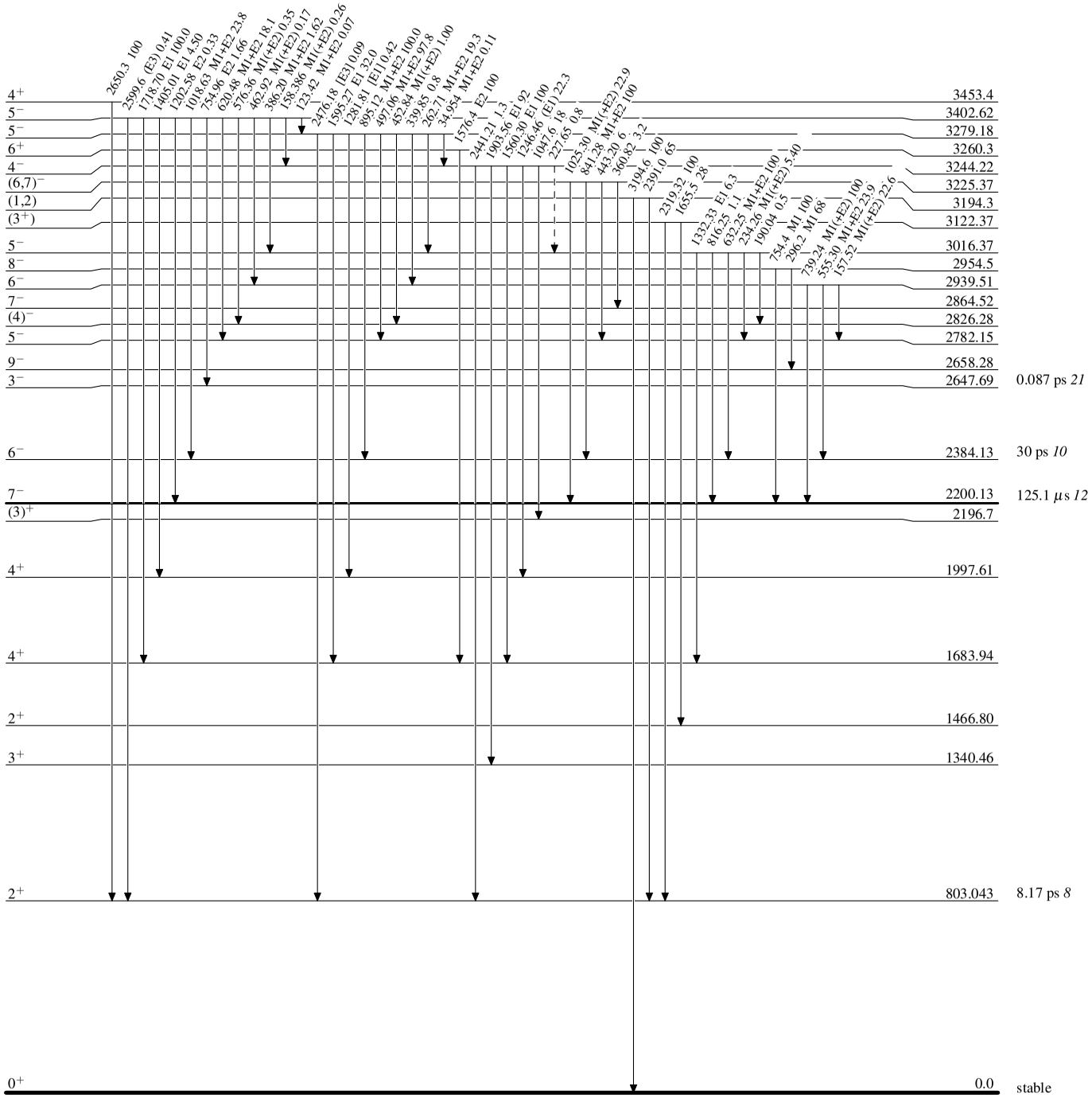
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

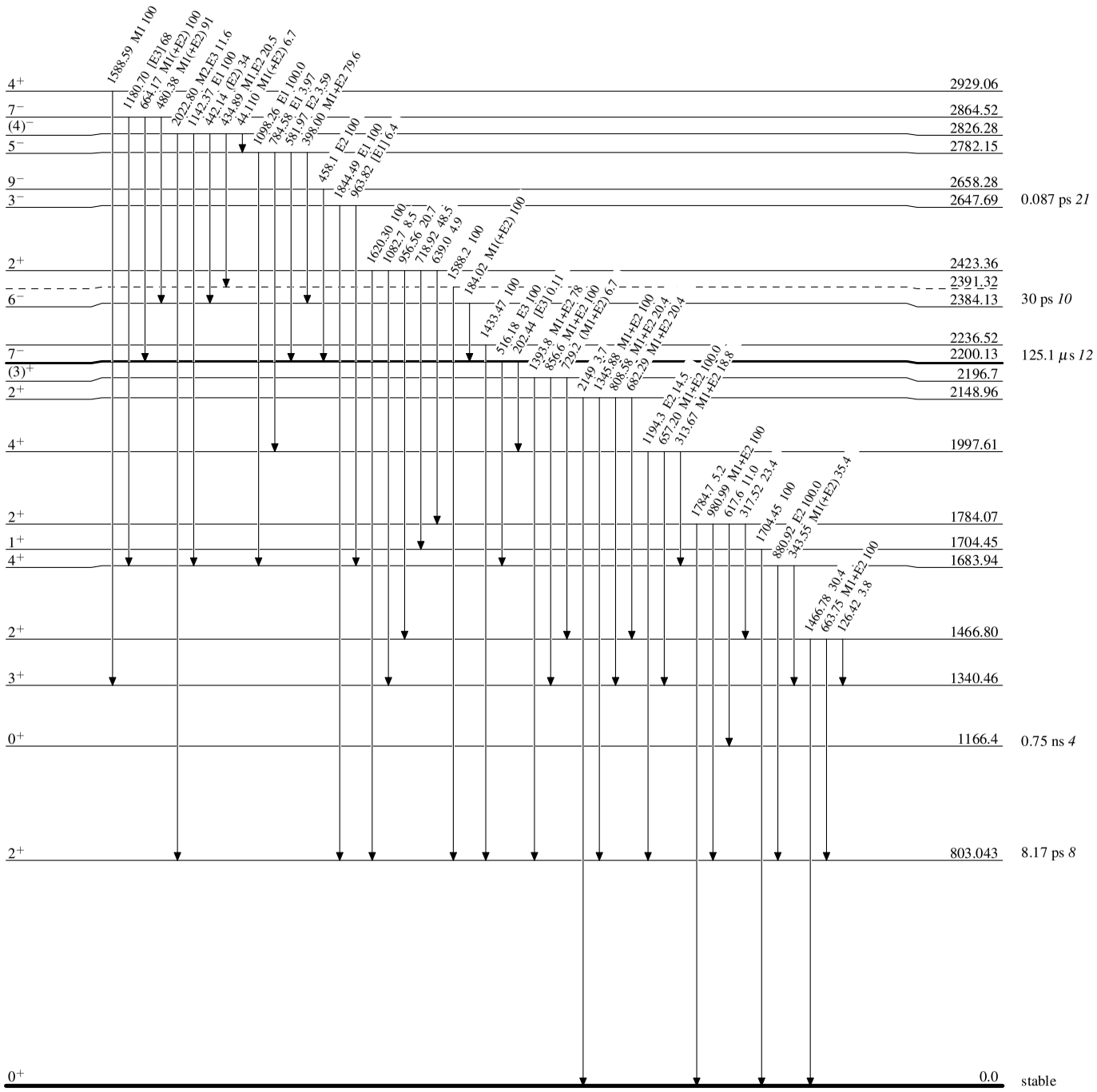


$^{206}_{82}Pb_{124}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



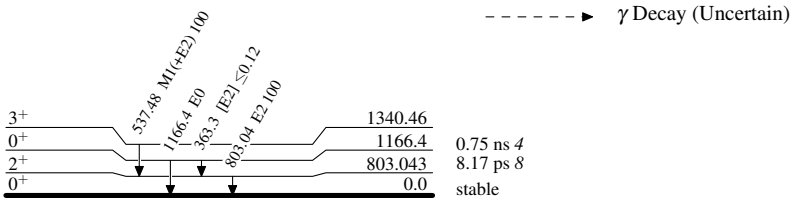
$^{206}_{82}Pb_{124}$

Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{206}_{82}Pb_{124}$