Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong	NDS 108, 1093 (2007)	1-Jan-2006

Q(β^-)=−7.35×10^3 *3*; S(n)=9.72×10^3 *3*; S(p)=4495 *18*; Q(α)=4226 *21* 2012Wa38
Note: Current evaluation has used the following Q record.
Q(β^-)=−7352 *28*; S(n)=9718 *27*; S(p)=4495 *20*; Q(α)=4226 *21* 2003Au03
Nuclear structure calculations: 1992Kr07, 1992Me01, 1992Sk01, 1992Wu05, 1991Sa12, 1990Ja13, 1989Be34, 1988Ar12, 1988He13, 1987He09, 1986Zh10, 1985He09, 1985Zv01, 1984Li12, 1997Bo28, 1997De28, 1997De32.
Hyperfine structure and isotope-shift: 1991Di09, 1987Sa51, 1987Za02, 1986An06.

^{196}Pb Levels

Cross Reference (XREF) Flags

A	^{196}Bi ε decay (308 s)	E	^{198}Hg(α,6nγ), ^{196}Hg(α,4nγ)
B	^{196}Bi ε decay (240 s)	F	^{200}Po α decay (11.5 min)
C	(HI,xnγ)	G	^{209}Bi(π^-,13nγ)
D	^{198}Hg(^{3}He,5nγ)	H	(HI,xnγ):SD

E(level)†	Jπ‡	$T_{1/2}$#	XREF	Comments
0.0[j]	0$^+$	37 min *3*	ABCDEFG	%ε+%β^+≈100; %α≤3×10^{-5} (1963Ka17) $T_{1/2}$: from conversion electron measurement (1961Sv01,1957An53).
1049.20[j] *9*	2$^+$	<100 ns	ABCDE G	Jπ: 1049γ E2 to 0$^+$. $T_{1/2}$: from ^{14}N-γ delay coin (1970InZW).
1142.86[@] *17*	0$^+$		AB E	Jπ: 1143γ E0 to 0$^+$, identified as proton 2-particle, 2-hole intruder state (1984Va11,1987Va09).
1449.87[@] *13*	2$^+$		AB E	Jπ: 1450γ E2 to 0$^+$.
1697.8 *5*	0$^+$		A	Jπ: 1698γ E0 to 0$^+$.
1738.27[j] *12*	4$^+$	<1 μs	ABCDE G	Jπ: 689γ E2 to 2$^+$, 59γ E1 from 5$^-$. $T_{1/2}$: from $\gamma\gamma$(t) (1973Dj01).
1797.51[j] *14*	5$^-$	140 ns *14*	BCDE G	μ=0.490 *15* (1985St16,1989Ra17) B(E1)↑=1.16×10^{-7} *9* (1986Va03); B(E1)↑=1.15×10^{-7} (1973Pa03) B(E3)↑=5.0×10^{-3} *15* (1986Va03); B(E3)↑=3.60×10^{-3} *70* (1986Pa18) Jπ: 748γ E3 to 2$^+$. neutron two-quasiparticle state. i13/2 $p_{3/2}$ (1985St16). $T_{1/2}$: weighted average of 130 ns *10* ($\gamma\gamma$(t) 1973Pa03), 134 ns *20* (^{3}He-γ(t) 1973Dj01), and 185 ns *20* ($\gamma(\theta$,H,t) 1985St16). 122 ns *9* from B(E1)=1.16×10^{-5} *9* (1986Va03), 176 ns *34* from B(E3)=3600 *700* (1986Pa18), and 127 ns *38* from B(E3)=5000 *150* (1986Va03). μ: g=+0.098 *3* (1985St16) from DPAD if $T_{1/2}$=185 ns *20*.
1825.60 *16*	3$^+$,4$^+$		A	Jπ: 776.6γ E2+(M1) to 2$^+$, 550γ from (5)$^+$,(6)$^+$, log *ft*=6.84 from (3$^+$).
1861.7[@] *6*	(4$^+$)		E	Jπ: 412γ to 2$^+$, rotational band member.
1896.10 *17*	2$^+$		A	Jπ: 753γ E2 to 0$^+$, log *ft*=6.92 from (3$^+$).
1991.61 *22*	2$^-$,3$^-$		A	Jπ: 942γ E1 to 2$^+$, γ to g.s. not observed, log *ft*=6.97 from (3$^+$). E(level): this level was established through the 942γ-1049γ coin.
2060.06 *23*	(1$^-$,2$^+$)		A	Jπ: 2060γ to 0$^+$ g.s. state, 1011γ to 2$^+$, log *ft*=7.29 from (3$^+$).
2124.42 *22*	(1$^-$,2,3)		A	Jπ: γ to 2$^+$ state, log *ft*=7.3 from (3$^+$).
2169.43[j] *16*	7$^-$	<5 ns	BCDE G	Jπ: 371.9γ E2 to 5$^-$. But discrepant with log *ft*=6.65 from (10$^-$). $T_{1/2}$: from TDPAD (1973Pa03).
2203.27 *24*	4$^+$		A E	Jπ: 753γ E2 to 2$^+$, log *ft*=7.59 from (3$^+$).
2307.84[j] *18*	9$^-$	52 ns *5*	BCDE G	B(E2)↑=7.4×10^{-3} *7* (1986Va03); B(E2)↑=8.3×10^{-3} (1986Pa18) B(E2)↑=5.91×10^{-3} (1973Pa03)

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Adopted Levels, Gammas (continued)

^{196}Pb Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	XREF	Comments
				μ=−0.33 *9* (2004Vy01) Jπ: 138γ E2 to 7⁻, log *ft*=6.48 from (10⁻). neutron two-quasiparticle state. $T_{1/2}$: weighted average of 51 ns *5* (1973Pa03), 61 ns *14* (1973Dj01). 56 ns *5* from B(E2)=7.4×10⁻³ *7* (1986Va03), and 50 ns *5* from B(E2)=8.3×10⁻³ (1986Pa18), $\Delta T_{1/2}$ estimated by evaluator. μ: From g=−0.037 *10* by TDPAD (2004Vy01).
2333.9[d] *3*	(8⁻)		BC	Jπ: from qualitative trend of the 8⁻ state in ^{192}Pb, ^{194}Pb and 165γ to 7⁻. But discrepant with log *ft*=6.80 from (10⁻).
2376.05 *20*	(5)⁺,(6)⁺		A	Jπ: 638γ E2 to 4⁺, no γ to levels with Jπ≤4⁺, no ε decay from (3⁺).
2423.9[@] *8*	(6⁺)		E	Jπ: 562γ to (4⁺), rotational band member.
2470.77 *23*	(3,4,5⁻)		A	Jπ: log *ft*=7.48 from (3⁺), 733γ to 4⁺.
2590.9[n] *3*	8⁻		BC E	Jπ: M1 γ to 9⁻,2308, 7⁻,2169. 1986Va03 suggests π=+ from E1 of 421γ.
2621.9[@] *9*	(8⁺)	50 ns *15*	E	B(E2)↑=28 (1987Pe13) $T_{1/2}$: from time spectra (1987Pe13). Jπ: 198γ to (6⁺), rotational band member. Configuration=(9/2⁻[514])(7/2[514])8⁺. Proton 2-particle 2-hole intruder state. Band structure is disturbed by this Jπ=8⁺ isomer (1983St15).
2630	(8⁺)		C	E(level): From 2005Dr11. Jπ: 562 γ E3 from 11⁻.
2645.12[j] *19*	10⁺	<2 ns	BCDE G	B(E1)↑>5.6×10⁻⁸ (1986Pa18) Jπ: 337γ E1 to 9⁻, log $f^{1u}t$=6.16 from (10⁻). $T_{1/2}$: from γγ(t) (1986Pa18). <3 ns from in-beam delayed coincidence (1973WyZZ).
2694.6 *3*	12⁺	270 ns *4*	CDE	B(E2)↑=4.00×10⁻³ *9* (1989Su12); B(E2)↑=4.095×10⁻³ *150* (1986Pa16) B(E2)↑=3.9×10⁻³ *4* (1986Va03); B(E2)↑=2.76×10⁻³ (1973Pa03) μ=−1.920 *18* (1983St15,1989Ra17) Q=0.65 *5* (1981Zy02,1989Ra17) Jπ: 47.7γ (E2) to 10⁺. $T_{1/2}$: weighted average of 269 ns *5* (1977Ro15), 269 ns *10* (1983St15), and 273 ns *6* (1989Su12). Other: 295 ns *30* (1973Pa03), 238 ns *62* (2003Gl05), 223 ns *40* (2004Gl04). neutron two-quasiparticle state. μ: From g=−0.1600 *15* from γ(θ,H,t) and TDPAD in 1983St15. Other: g=−0.157 *7* (1977Ro15). Q: From TDPAD (1981Zy02).
3037.9 *6*	9⁻		C	Jπ: E2 γ to 7⁻,2169.
3041.5 *3*	4⁺		A	Jπ: 665γ E2 to 6⁺, log *ft*=6.96 from (3⁺).
3042.8 *5*	9⁻		C	Jπ: E2 γ to 7⁻,2169.
3087.1[n] *4*	9⁻		BC	Jπ: M1 γ to 8⁻,2591.
3192.67 *25*	11⁻	72 ns *4*	C E	g=0.96 *8* μ=11.4 *6* (2004Vy01) Q=(−)3.4 *7* (2001Ba86,2002Vy02) Jπ: 498γ E1 to 12⁺, 548γ E1 to 10⁺. Configuration=((9/2⁻[514])(13/2⁺[606]))11⁻. proton 2p- ^{2}H intruder state. $T_{1/2}$: From γγ(t) (1986Va03). Others: 74 ns *10* (1987Pe13,1985PeZU); 72 ns *5* (1986PeZV), 57 ns *3* (2005Dr11). g: From spin-precession, 0.93 from theory (1987Pe13). theoretical value g=0.93 for Configuration=(1/2⁺[404]−2 9/2−(514)13/2+(606))11⁻. a member of a ΔJ=1 rotational band built upon this isomer. μ: From g=+1.04 *5* by TDPAD (2004Vy01). μ: Other: 10.6 *9* (1987Pe13,1989Ra17) from spin-precession, Q: From LEMS (2001Ba86,2002Vy02).

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Adopted Levels, Gammas (continued)

^{196}Pb Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	XREF	Comments
3280.8 *4*	10$^-$		C	J$^{\pi}$: E2 γ to (8$^-$),2334; M1 γ to 9$^-$,3043,2308.
3338.4 *4*	11$^-$		C	J$^{\pi}$: E2 γ to 9$^-$,2308.
3394.1[n] *3*	10$^-$		BC	J$^{\pi}$: E2 γ to 8$^-$,2591; M1 γ to 9$^-$,3087.
3460.9 *4*	12$^+$		C	J$^{\pi}$: E2 γ to 10$^+$,2645; M1 γ to 12$^+$,2694.
3508.6 *6*	11$^-$		C	J$^{\pi}$: E2 γ to 9$^-$,3038.
3654.3 *3*	14$^+$		C	J$^{\pi}$: E2 γ to 12$^+$,2694.
3669.4 *7*	10$^-$		C	J$^{\pi}$: M1 γ to 9$^-$,3087.
3738.7 *4*	12$^-$		C E	J$^{\pi}$: M1 γ to 11$^-$,3191.
3828.8 *5*	12$^-$		C	J$^{\pi}$: E2 γ to 10$^-$,3281; M1 γ to 11$^-$,3338.
3863.4 *6*			C	
3885.6[n] *5*	11$^-$		C	J$^{\pi}$: E2 γ to 9$^-$,3087; M1 γ to 10$^-$,3394.
3917.7 *4*	14$^+$		C	J$^{\pi}$: E2 γ to 12$^+$,2694,3461; M1 γ to 14$^+$,3654.
4028.4 *7*	11$^-$		C	J$^{\pi}$: M1 γ to 10$^-$,3394.
4031.8 *5*	13$^-$		C	J$^{\pi}$: E2 γ to 11$^-$,3338,3509.
4047.3 *3*	13$^-$		C	J$^{\pi}$: E2 γ to 11$^-$,3191; M1 γ to 12$^-$,3739.
4067.8 *5*	12$^-$		C	J$^{\pi}$: M1 γ to 11$^-$,3191.
4121.8[l] *4*	15$^-$		C	J$^{\pi}$: E1 γ to 14$^+$,3918,3654.
4218.9[o] *4*	16$^+$		C	J$^{\pi}$: E2 γ to 14$^+$,3654.
4280.0 *7*	11$^-$		C	J$^{\pi}$: M1 γ to 10$^-$,3669.
4333.4 *4*	16$^+$		C	J$^{\pi}$: E2 γ to 14$^+$,3918,3654.
4384.6[n] *6*	12$^-$		C	J$^{\pi}$: E2 γ to 10$^-$,3394; M1 γ to 11$^-$,3885.
4384.8[e] *5*	14$^-$		C	J$^{\pi}$: E2 γ to 12$^-$,3829; M1 γ to 13$^-$,4032.
4430.4 *5*	14$^-$		C	J$^{\pi}$: E2 γ to 12$^-$, 3829.
4479.6[m] *4*	16$^-$	5.0 ns *5*	C	J$^{\pi}$: M1 γ to 15$^-$, 4121. 1986Va03 suggests 15$^-$ on the basis of a combined analysis of the results of the angular distribution and conversion electron measurement and R(DCO). T$_{1/2}$: from time spectrum for ce (1986Va03).
4542.5 *9*	(12$^-$)		C	J$^{\pi}$: (M1) γ to 11$^-$, 4028.
4549.9 *7*	12$^-$		C	J$^{\pi}$: M1 γ to 11$^-$, 4280.
4551.4 *6*			C	
4561.0[e] *5*	15$^-$		C	J$^{\pi}$: M1 γ to 14$^-$, 4385.
4581.7 *8*	(13$^-$)		C	J$^{\pi}$: (M1) γ to 12$^-$, 4068.
4582.5[k] *6*	14$^-$		C	J$^{\pi}$: M1 γ to 13$^-$, 4048.
4586.0[n] *8*	13$^-$		C	J$^{\pi}$: M1 γ to 12$^-$, 4384.
4589.4 *4*	12$^+$		C	J$^{\pi}$: E2 γ to 10$^+$,2645; M1 γ to 12$^+$,3461.
4625.4 *5*	13$^-$		C	J$^{\pi}$: E1 γ to 12$^+$,3461,2694.
4647.7 *5*	16$^-$		C	Q=−3.2 *10* (2001Ba86) J$^{\pi}$: M1 γ to 15$^-$,4121. Q: From LEMS (2001Ba86).
4652.9 *4*	15$^-$		C	J$^{\pi}$: E2 γ to 13$^-$,4032,4047.
4658.1[d] *5*	14$^+$		C	J$^{\pi}$: E2 γ to 12$^+$,3461.
4676.7[l] *6*	17$^-$		C	J$^{\pi}$: E2 γ to 15$^-$,4121; M1 γ to 16$^-$,4479.
4696.0 *8*	15$^-$		C	J$^{\pi}$: E2 γ to 13$^-$,4032.
4723.9 *5*	17$^-$		C	J$^{\pi}$: M1 γ to 16$^-$,4479. 1986Va03 suggests 16$^-$ on the basis of a combined analysis of the results of the angular distribution and conversion electron measurement and R(DCO).
4748.4[d] *5*	15$^+$		C	J$^{\pi}$: M1 γ to 16$^+$,4333.
4803.8 *6*	(18$^-$)		C	J$^{\pi}$: γ to 17$^-$,4724.
4817.7 *5*	16$^+$		C	J$^{\pi}$: E2 γ to 14$^+$,3918; M1 γ to 16$^+$,4333.
4843.5 *6*	16$^-$		C	J$^{\pi}$: M1 γ to 15$^-$,4121.
4849.5 *6*	16$^+$		C	J$^{\pi}$: M1 γ to 15$^+$,4748.
4852.7[d] *5*	16$^+$		C	J$^{\pi}$: M1 γ to 15$^+$,4748.
4864.2[e] *6*	16$^-$		C	J$^{\pi}$: M1 γ to 15$^-$,4561.
4899.0[k] *5*	15$^-$		C	J$^{\pi}$: E2 γ to 13$^-$,4047; M1 γ to 14$^-$,4583.

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Adopted Levels, Gammas (continued)

^{196}Pb Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	XREF	Comments
4964.1[o] 4	18^+		C	Jπ: E2 γ to 16^+, 4219,4333.
4971.7 6	17^-		C	Jπ: E2 γ to 15^-, 4121.
4985.8 6	15^-		C	Jπ: E2 γ to 13^-, 4048.
4995.7[&] 5	17^+		C	Jπ: M1 γ to 16^+, 4853,4219.
5035.5[d] 5	17^+		C	Jπ: M1 γ to 16^+, 4853,4219.
5155.1[a] 4	16^-		C	Jπ: E2 γ to 14^-,4385,4431; M1 γ to 15^-,4653. Estimated Q=−0.32 *10* (2002Vy02).
5166.3[m] 5	18^-		C	Jπ: E2 γ to 16^-,4843,4479.
5173.3 5	16^-		C	Jπ: E2 γ to 14^-,4385; M1 γ to 15^-,4653.
5188.4[&] 5	18^+	0.89 ps *15*	C	Jπ: M1 γ to 17^+,4995. $T_{1/2}$: from DSA in 2001Ke12.
5212.1[e] 6	17^-		C	Jπ: M1 γ to 16^-,4864.
5235.8[a] 5	17^-		C	Jπ: E2 γ to 15^-,4653.
5255.3 7	19^-		C	Jπ: E2 γ to 17^-,4676.
5265.2[h] 7	16^-		C	Jπ: M1 γ to 15^-,4653.
5283.6[d] 5	18^+		C	Jπ: M1 γ to 17^+,5035.
5329.8[k] 5	16^-		C	Jπ: M1 γ to 15^-,4899.
5342.7[a] 7	18^-		C	Jπ: M1 γ to 17^-,5236.
5350.5[l] 7	19^-		C	Jπ: E2 γ to 17^-,4676,4971.
5380.9[h] 8	17^-		C	Jπ: M1 γ to 16^-,5265.
5480.7[a] 7	19^-		C	Jπ: M1 γ to 18^-,5343.
5493.1[o] 5	20^+		C	pure $(i_{13/2})4$ configuration. Jπ: E2 γ to 18^+,4964.
5502.9[&] 5	19^+	0.67 ps *14*	C	Jπ: M1 γ to 18^+,4964,5188. $T_{1/2}$: from DSA in 2001Ke12.
5558.6[e] 7	18^-		C	Jπ: E2 γ to 16^-,4864; M1 γ to 17^-,5212.
5576.2[k] 6	17^-		C	Jπ: M1 γ to 16^-,5155,5330.
5577.5[d] 5	19^+		C	Jπ: E2 γ to 17^+,5035; M1 γ to 18^+,5283.
5608.2 5	19^-		C	Jπ: E2 γ to 17^-,4724; M1 γ to 18^-,5166.
5658.4[h] 8	18^-		C	Jπ: M1 γ to 17^-,5381.
5684.6[a] 7	20^-		C	Jπ: M1 γ to 19^-,5481.
5706.0 6	19^-		C	Jπ: E2 γ to 17^-,4724.
5709.2 5	20^+		C	Jπ: E2 γ to 18^+,4964. 1986Va03 suggests (19^-) on the basis of a combined analysis of the results of the angular distribution and conversion electron measurement and R(DCO).
5728.2 6	19^-		C	Jπ: E2 γ to 17^-,4724.
5785.7[m] 7	19^-		C	Jπ: M1+E2 γ to 18^-,5166. Jπ: 20^- in figure 1 of 2002Si20 is a misprint.
5859[p] 2	6^+		H	Jπ: from 1997Az05,2005Wi21. E(level): From 2005Wi21.
5870.4[h] 10	19^-		C	Jπ: M1 γ to 18^-,5659.
5877.5[&] 5	20^+	0.93 ps *35*	C	$T_{1/2}$: from DSA in 2001Ke12. Jπ: E2 γ to 18^+,5188; M1 γ to 19^+,5503.
5886.4[b] 6	18^-		C	Jπ: M1 γ to 17^-,5576.
5896.0[e] 7	19^-		C	Jπ: E2 γ to 17^-,5212.
5928.4 7	20^+		C	Jπ: M1 γ to 20^+,5493.
5934.3[d] 6	20^+		C	Jπ: E2 γ to 18^+,5283; M1 γ to 19^+,5577.
5952.4[a] 8	21^-		C	Jπ: M1 γ to 20^-,5685.
5976.2 8	21^-		C	Jπ: E2 γ to 19^-,5350.
6026.3[l] 8	21^-		C	Jπ: E2 γ to 19^-,5350.
6030.40[p] 20	8^+		H	

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Adopted Levels, Gammas (continued)

^{196}Pb Levels (continued)

E(level)[†]	Jπ[‡]	T$_{1/2}$[#]	XREF	Comments
6041.4[b] 7	19$^-$		C	Jπ: M1 γ to 18$^-$,5659,5887.
6050.6 6	21$^+$		C	Jπ: M1 γ to 20$^+$,5493,5928.
6075.3 7	20$^+$		C	Jπ: M1 γ to 19$^+$,5503.
6160.1[e] 8	20$^-$		C	Jπ: M1 γ to 19$^-$,5896.
6185.1[b] 7	20$^-$		C	Jπ: E2 γ to 18$^-$,5343; M1 γ to 19$^-$,6042.
6196.5[h] 12	20$^-$		C	Jπ: M1 γ to 19$^-$,5871.
6232.8[&] 5	21$^+$		C	Jπ: E2 γ to 19$^+$,5503; M1 γ to 20$^+$,5877.
6246.0[p] 3	10$^+$		H	
6284.2[a] 8	22$^-$		C	Jπ: M1 γ to 21$^-$,5952.
6294.4[d] 6	21$^+$		C	Jπ: E2 γ to 19$^+$,5577; M1 γ to 20$^+$,5934.
6334.5 7	22$^+$		C	Jπ: M1 γ to 21$^+$,6050.
6349.2[b] 7	21$^-$		C	Jπ: M1 γ to 20$^-$,6160,6185.
6360.6[o] 6	22$^+$		C	Jπ: E2 γ to 20$^+$,5493,5709.
6369.1[e] 10	21$^-$		C	Jπ: M1 γ to 20$^-$,6160.
6379.3[m] 6	21$^-$		C	Jπ: E2 γ to 19$^-$,5607,5706,5785.
6458.1 6	22$^+$		C	Jπ: E2 γ to 20$^+$,5709.
6498.7[h] 13	21$^-$		C	Jπ: M1 γ to 20$^-$,6197.
6505.4[p] 4	12$^+$		H	
6516.4 7	22$^+$		C	Jπ: E2 γ to 20$^+$,5709.
6534.4[c] 6	21$^+$		C	Jπ: M1 γ to 20$^+$,5877,6075.
6557.5[b] 9	22$^-$		C	Jπ: M1 γ to 21$^-$,6349.
6574.4[&] 5	22$^+$		C	Jπ: E2 γ to 20$^+$,5877; M1 γ to 21$^+$,6233.
6581.0[c] 7	21$^+$		C	Jπ: M1 γ to 21$^+$,6075.
6601.9[e] 12	22$^-$		C	Jπ: M1 γ to 21$^-$,6369.
6614.9 7	23$^+$		C	Jπ: M1 γ to 22$^+$,6334,6360,6458.
6645.7 8	20$^-$		C	Jπ: M1 γ to 19$^-$,5728.
6651.2[a] 8	23$^-$		C	Jπ: E2 γ to 21$^-$,5952; M1 γ to 22$^-$,6284.
6657.8 7	23$^+$		C	Jπ: M1 γ to 22$^+$,6334,6360.
6690.0[d] 7	22$^+$		C	Jπ: E2 γ to 20$^+$,5934; M1 γ to 21$^+$,6294.
6693.1 7	24$^+$		C	Jπ: E2 γ to 22$^+$,6360.
6725.4[l] 9	23$^-$		C	Jπ: E2 γ to 21$^-$,5976,6026.
6780.4[c] 6	22$^+$		C	Jπ: E2 γ to 20$^+$,5877; M1 γ to 21$^+$,6534,6581.
6807.7[b] 9	23$^-$		C	Jπ: M1 γ to 22$^-$,6558.
6808.4[p] 4	14$^+$		H	
6818.0[&] 6	23$^+$		C	Jπ: E2 γ to 21$^+$,6233; M1 γ to 22$^+$,6574.
6846.1[q] 9	(8$^-$)		H	Jπ: from 1997Az05.
6857.7[h] 14	22$^-$		C	Jπ: M1 γ to 21$^-$,6499.
6865.9 8			C	
6881.1[e] 13	23$^-$		C	Jπ: M1 γ to 22$^-$,6602.
6944.8[r] 11	(9$^-$)		H	Jπ: from 1997Az05.
7027.8[&] 6	24$^+$		C	Jπ: M1 γ to 23$^+$,6818.
7042.1[c] 6	23$^+$		C	Jπ: E2 γ to 21$^+$,6233; M1 γ to 22$^+$,6780.
7043.4[a] 8	24$^-$	0.146 ps +*10*−*8*	C	Jπ: E2 γ to 22$^-$,6284; M1 γ to 23$^-$,6651.
7050.6[q] 14	(10$^-$)		H	
7074.7[d] 7	23$^+$		C	Jπ: E2 γ to 21$^+$,6294; M1 γ to 22$^+$,6690.
7116.8[b] 10	24$^-$		C	Jπ: M1 γ to 23$^-$,6808.
7154.2[p] 5	16$^+$		H	
7171.9 9	23$^-$		C	Jπ: E2 γ to 21$^-$,6379.
7172.1[r] 11	(11$^-$)		H	
7174.7[o] 7	24$^+$		C	Jπ: E2 γ to 22$^+$,6360,6458.

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Adopted Levels, Gammas (continued)

^{196}Pb Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	XREF	Comments
7211.5[e] *14*	24⁻		C	Jπ: M1 γ to 23⁻,6881.
7213.3[h] *16*	23⁻		C	Jπ: From cascade of M1 γ's and band structure.
7246.1[m] *9*	23⁻		C	Jπ: E2 γ to 21⁻,6379.
7254.6 *9*			C	
7267.2[&] *7*	25⁺		C	Jπ: M1 γ to 24⁺,7028.
7298.5[q] *17*	(12⁻)		H	
7302.2 *9*	22⁻		C	Jπ: M1 γ to 21⁻,6379.
7337.0[c] *8*	24⁺		C	Jπ: M1 γ to 23⁺,7042.
7440.5[r] *8*	(13⁻)		H	
7441.1[a] *8*	25⁻	0.12 ps *+8−6*	C	Jπ: E2 γ to 23⁻,6651; M1 γ to 24⁻,7043.
7465.3[d] *8*	24⁺		C	Jπ: E2 γ to 22⁺,6690; M1 γ to 23⁺,7074.
7491.9[b] *10*	25⁻		C	Jπ: M1 γ to 24⁻,7117.
7507.9 *10*	22⁻		C	Jπ: E2 γ to 20⁻,6645.
7541.8[p] *5*	18⁺	0.46[t] ps *8*	H	$T_{1/2}$: 0.53 ps *9* from gating above (2002Ro30). Q(transition)=20.1 *17*, 18.6 *16*(2002Ro30).
7553.3[&] *7*	26⁺	0.132 ps *+21−28*	C	Jπ: M1 γ to 25⁺,7267. $T_{1/2}$: from DSA in 1998Cl06. Other: 0.28 PS 6 (1995Mo01).
7563.8[e] *16*	25⁻		C	Jπ: M1 γ to 24⁻,7212.
7564.6 *11*	24⁻		C	Jπ: M1 γ to 23⁻,7172.
7587.9[q] *20*	(14⁻)		H	
7588.2 *10*	25⁺		C	Jπ: M1 γ to 24⁺,6693.
7593.0[h] *17*	24⁻		C	Jπ: From cascade of M1 γ's and band structure.
7634.9[c] *8*	25⁺		C	Jπ: M1 γ to 24⁺,7337.
7749.5[r] *8*	(15⁻)		H	
7825.9[d] *8*	25⁺		C	Jπ: M1 γ to 24⁺,7465.
7849.3[a] *9*	26⁻	0.27 ps *8*	C	Jπ: E2 γ to 24⁻,7043; M1 γ to 25⁻,7441.
7892.0[&] *7*	27⁺	0.118 ps *+21−28*	C	Jπ: M1 γ to 26⁺,7553. $T_{1/2}$: from DSA in 1998Cl06.
7896.4[b] *9*	26⁻		C	Jπ: M1 γ to 25⁻,7492.
7912.3[g] *8*	26⁺		C	Jπ: M1 γ to 25⁺,7635.
7917.6[q] *22*	(16⁻)		H	
7940.3[e] *17*	26⁻		C	Jπ: From cascade of M1 γ's and band structure.
7940.8[i] *11*	26⁻		C	Jπ: M1 γ to 25⁻,7492.
7970.3[p] *6*	20⁺	0.23[t] ps *4*	H	$T_{1/2}$: 0.27 ps *5* from gating above (2002Ro30). Q(transition)=21.9 *18*, 20.1 *18*(2002Ro30).
7977.8[c] *10*	26⁺	0.118 ps *21*	C	Jπ: M1 γ to 25⁺,7635.
8025.8[o] *9*	26⁺		C	Jπ: E2 γ to 24⁺,7174.
8098.8[r] *8*	(17⁻)		H	
8144.4[s] *10*	(17⁻)		H	Jπ: from 1997Az05.
8166.6[d] *10*	26⁺		C	Jπ: M1 γ to 25⁺,7826.
8201.3[g] *8*	27⁺	0.159 ps *28*	C	Jπ: M1 γ to 26⁺,7912. $T_{1/2}$: From DSA (2002Si29).
8222.7[a] *9*	27⁻		C	Jπ: E2 γ to 25⁻,7441; M1 γ to 26⁻,7849,7896.
8271.1[b] *9*	27⁻		C	Jπ: E2 γ to 25⁻,7441; M1 γ to 26⁻,7849,7896.
8287.1[q] *25*	(18⁻)		H	
8289.7[&] *8*	28⁺	0.090 ps *+21−14*	C	Jπ: E2 γ to 26⁺,7553; M1 γ to 27⁺,7892. $T_{1/2}$: From DSA (2002Si29). other: 0.104 ps 21 (1998Cl06), 0.17 PS 4 (1995Mo01).
8357.2[c] *12*	27⁺	0.104 ps *+21−14*	C	Jπ: M1 γ to 26⁺,7978. $T_{1/2}$: From DSA (2002Si29).
8382.9[e] *18*	27⁻		C	Jπ: From cascade of M1 γ's and band structure.

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Adopted Levels, Gammas (continued)

^{196}Pb Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	XREF	Comments
8383.5[i] *10*	27⁻		C	Jπ: M1 γ to 26⁻,7941.
8439.7[p] *6*	22⁺	0.152[t] ps *28*	H	$T_{1/2}$: 0.187 ps *35* from gating above (2002Ro30). Other: 0.23 ps 10 from line-shape analysis (1993Mo19). Q(transition)=17.3 *+61−30* (1993Mo19), 21.2 *17*, 19.2 *18*(2002Ro30).
8487.4[r] *9*	(19⁻)		H	
8517.0[d] *12*	27⁺		C	Jπ: M1 γ to 26⁺,8166.
8540.6[g] *8*	28⁺	0.104 ps *+21−14*	C	Jπ: M1 γ to 27⁺,8201. $T_{1/2}$: From DSA (2002Si29). Other: 0.24 PS +14-7 (1995Mo01).
8549.6[s] *10*	(19⁻)		H	
8556.2[a] *9*	28⁻		C	Jπ: E2 γ to 26⁻,7849; M1 γ to 27⁻,8223.
8666.2[b] *9*	28⁻		C	Jπ: E2 γ to 26⁻,7849; M1 γ to 27⁻,8271.
8696[q] *3*	(20⁻)		H	
8738.4[&] *8*	29⁺	0.097 ps *14*	C	Jπ: E2 γ to 27⁺,7892; M1 γ to 28⁺,8289. $T_{1/2}$: From DSA (2002Si29). other: 0.090 ps +21-14 (1998Cl06), 0.19 ps 3 (1995Mo01).
8769.5[c] *13*	28⁺	0.090 ps *+21−14*	C	Jπ: M1 γ to 27⁺,8357.
8850.6[e] *19*	28⁻		C	Jπ: From cascade of M1 γ′s and band structure.
8883.0[i] *12*	28⁻		C	Jπ: From cascade of M1 γ′s and band structure.
8892.7[a] *10*	29⁻		C	Jπ: M1 γ to 28⁻,8556.
8915.0[r] *9*	(21⁻)		H	
8937.7[o] *11*			C	
8940.1[g] *9*	29⁺	0.090 ps *14*	C	Jπ: M1 γ to 28⁺,8540.
8948.2[p] *6*	24⁺	0.097[t] ps *14*	H	$T_{1/2}$: 0.118 ps *21* from gating above (2002Ro30). Other: 0.12 ps +3-5 from line-shape analysis (1993Mo19). Q(transition)=19.1 *+65−18* (1993Mo19), 21.9 *15*, 20.2 *18*(2002Ro30).
8991.6[s] *14*	(21⁻)		H	
9070.3[b] *10*	29⁻		C	Jπ: M1 γ to 28⁻,8666.
9144[q] *3*	(22⁻)	0.32[t] ps *8*	H	Q(transition)=16.7 *20* (2002Ro30).
9202.0[c] *15*	29⁺	0.097 ps *+21−14*	C	Jπ: M1 γ to 28⁺,8769.
9228.6[&] *9*	30⁺	0.090 ps *21*	C	Jπ: M1 γ to 29⁺,8738. $T_{1/2}$: From DSA (2002Si29). Other: 0.125 ps *28* (1998Cl06), 0.16 ps 4 (1995Mo01).
9251.2[a] *10*	30⁻		C	Jπ: M1 γ to 29⁻,8893.
9374.3[e] *20*	29⁻		C	Jπ: From cascade of M1 γ′s and band structure.
9380.9[r] *10*	(23⁻)		H	
9404.2[g] *9*	30⁺	0.097 ps *+21−14*	C	Jπ: M1 γ to 29⁺,8738.
9471.6[s] *17*	(23⁻)		H	
9495.1[p] *7*	26⁺	0.076[t] ps *14*	H	$T_{1/2}$: 0.090 ps *14* from gating above (2002Ro30). Other: 0.08 ps +5-2 from line-shape analysis (1993Mo19). Q(transition)=19.6 *+30−40* (1993Mo19), 20.2 *18*, 19.2 *16*(2002Ro30).
9498.3[b] *11*	30⁻		C	Jπ: M1 γ to 29⁻,9070.
9630[q] *3*	(24⁻)	0.152[t] ps *35*	H	Q(transition)=19.8 *22* (2002Ro30).
9645.7[c] *16*	30⁺	0.076 ps *14*	C	Jπ: M1 γ to 29⁺,9202.
9646.7[a] *10*	31⁻		C	Jπ: M1 γ to 30⁻,9251.
9755.0[&] *9*	31⁺	0.111 ps *21*	C	Jπ: M1 γ to 30⁺,9228.
9884.0[r] *14*	(25⁻)		H	
9917.4[g] *11*	31⁺	0.097 ps *21*	C	Jπ: M1 γ to 30⁺,9404.
9950.9[b] *11*	31⁻		C	Jπ: M1 γ to 30⁻,9498.
9990.6[s] *20*	(25⁻)		H	
10079.3[p] *7*	28⁺	0.055[t] ps *9*	H	$T_{1/2}$: 0.053 ps *9* from gating above (2002Ro30). Q(transition)=20.4 *16*, 21.0 *18* (2002Ro30).

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Adopted Levels, Gammas (continued)

^{196}Pb Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	XREF	Comments
10088.8[a] *11*	32^-		C	Jπ: M1 γ to 31^-,9647.
10099.7[c] *17*	31^+	0.090 ps *+21−14*	C	Jπ: From cascade of M1 γ's and band structure.
10152[q] *4*	(26^-)	0.111[t] ps *21*	H	Q(transition)=19.3 *19* (2002Ro30).
10310.9[&] *10*	32^+		C	Jπ: M1 γ to 31^+,9755.
10424.2[r] *17*	(27^-)		H	
10438.5[b] *13*	32^-		C	Jπ: From cascade of M1 γ's and band structure.
10462.0[g] *13*	32^+		C	Jπ: From cascade of M1 γ's and band structure.
10547.6[s] *22*	(27^-)		H	
10568.3[c] *18*	32^+		C	Jπ: From cascade of M1 γ's and band structure.
10578.2[a] *13*	33^-		C	Jπ: From cascade of M1 γ's and band structure.
10699.9[p] *7*	30^+	0.052[t] ps *9*	H	$T_{1/2}$: 0.069 ps *22* from gating above (2002Ro30). Q(transition)=18.2 *16*, 15.7 *25* (2002Ro30).
10710[q] *4*	(28^-)	0.068[t] ps *11*	H	Q(transition)=20.6 *17* (2002Ro30).
10884.0[&] *10*	33^+		C	Jπ: M1 γ to 32^+,10311.
10956.1[b] *14*	33^-		C	Jπ: From cascade of M1 γ's and band structure.
11000.0[r] *20*	(29^-)		H	
11028.2[g] *14*	$33^{(+)}$		C	Jπ: From cascade of M1 γ's and band structure.
11059.7[c] *19*	33^+		C	Jπ: From cascade of M1 γ's and band structure.
11111.7[a] *14*	34^-		C	Jπ: From cascade of M1 γ's and band structure.
11304[q] *4*	(30^-)	0.055[t] ps *12*	H	Q(transition)=19.6 *21* (2002Ro30).
11354.8[p] *8*	32^+	0.026[t] ps *4*	H	$T_{1/2}$: 0.029 ps *5* from gating above (2002Ro30). Q(transition)=22.5 *18*, 21.2 *18* (2002Ro30).
11456.6[&] *10*	34^+		C	Jπ: M1 γ to 33^+,10884.
11585.5?[c] *20*	34^+		C	Jπ: From cascade of M1 γ's and band structure.
11610.8[r] *23*	(31^-)		H	
11625.4[g] *15*	$34^{(+)}$		C	Jπ: From cascade of M1 γ's and band structure.
11683.0[a] *15*	35^-		C	Jπ: From cascade of M1 γ's and band structure.
11934[q] *4*	(32^-)		H	
12023.3[&] *12*	35^+		C	Jπ: From cascade of M1 γ's and band structure.
12043.6[p] *8*	34^+	0.032[t] ps *7*	H	Q(transition)=17.8 *20* (2002Ro30).
12256.4[r] *25*	(33^-)		H	
12282.4?[a] *16*	36^-		C	Jπ: From cascade of M1 γ's and band structure.
12585.8[&] *14*	36^+		C	Jπ: From cascade of M1 γ's and band structure.
12600[q] *4*	(34^-)		H	
12763.7[p] *10*	36^+		H	
12936[r] *3*	(35^-)		H	
13515.8[p] *11*	38^+		H	
0+x[f]	J		C	Jπ: >17 proposed from the decay of this band mainly to 4653.1, (15^-) and 5155.3, (16^-) levels.
150.3+x[f] *6*	J+1		C	
331.3+x[f] *9*	J+2		C	
529.9+x[f] *11*	J+3		C	
774.2+x[f] *12*	J+4		C	
1071.9+x[f] *14*	J+5		C	
1420.7+x[f] *15*	J+6	0.111 ps *+28−21*	C	
1783.5+x[f] *16*	J+7	0.104 ps *21*	C	
2177.1+x[f] *17*	J+8		C	
2590.8+x[f] *18*	J+9	0.139 ps *28*	C	
3011.6+x[f] *19*	J+10		C	

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Adopted Levels, Gammas (continued)

^{196}Pb Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	XREF
3435.3+x[f] *20*	J+11	0.111 ps *21*	C
3893.1+x[f] *21*	J+12		C
4386.6+x[f] *22*	J+13		C
4906.8+x?[f] *23*	J+14		C

[†] From least-squares fit to Eγ's for states connected by definite placed γ's. Uncertainty set to 1 keV for unknown ΔEγ by GTOL program.
[‡] On the basis of a combined analysis of the results of the angular distribution, conversion electron measurement and R(DCO) ratio, unless otherwise specified.
[#] DSA measurements in (HI,xnγ) (1995Mo01, 1998Cl06, 2001Ke12, 2002Si29), except as noted.
[@] Band(a): the lower part of a ΔJ=2 band built upon the 0$^+$, 1143 state.
[&] Band(A): Magnetic-dipole rotational band based on 17$^+$ (1995Mo01, 1996Ba53,2002Si20,2002Si29).
[a] Band(B): Magnetic-dipole rotational band based on 16$^-$ (1995Mo01,1996Ba53,2002Si20).
[b] Band(C): Magnetic-dipole rotational band based on 18$^-$ (1993Hu01,1995Mo01,1996Ba53,2002Si20).
[c] Band(D): Magnetic-dipole rotational band based on either of the two 21$^+$ states or 22$^+$ (1995Mo01, 1996Ba53, 2002Si20, 2002Si29).
[d] Band(E): Magnetic-dipole rotational band based on 14$^+$ (2002Si20).
[e] Band(F): Magnetic-dipole rotational band based on 14$^-$ (2002Si20).
[f] Band(G): Magnetic-dipole rotational band (2002Si20,2002Si29).
[g] Band(H): Magnetic-dipole rotational band based on 26$^+$ (2002Si20, 2002Si29).
[h] Band(I): Magnetic-dipole rotational (?) band based on 16$^-$ Irregular band (2002Si20). Its magnetic rotational character is uncertain.
[i] Band(J): Forking of band based on 18$^-$, above J=25 (2002Si20).
[j] Band(K): γ cascade based on g.s (2002Si20,2005Dr11).
[k] Band(L): γ cascade based on 14$^-$ (2002Si20).
[l] Band(M): γ cascade based on 15$^-$ (2002Si20).
[m] Band(N): γ cascade based on 16$^-$ (2002Si20).
[n] Band(O): γ cascade based on 8$^-$ (2002Si20).
[o] Band(P): γ cascade based on 16$^+$ (2002Si20).
[p] Band(k): Yrast SD-1 band based on 6$^+$ (1997Az05,1995Va32,1994Cl02). Others: 2002Ro30, 2001Hu18, 2001Ro20, 1993Mo19, 1991Wa14, 1990Br10. Percent population=1.5 (1994Cl02) in ^{186}W(^{18}O,^{8}Nγ); 1.3 (1993Mo19) in ^{170}Er(^{30}Si,4nγ). Q(intrinsic)=19.5 *+4−3* (centroid-shift method) (1998Va18), 20.9 *20* (line shape analysis) (1998Va18), 18.3 *30* (1993Mo19).
[q] Band(Q): SD-2 band based on (8$^-$), α=0 (1997Az05,1995Va32). Others: 2002Ro30, 2001Ro20, 2001Hu18. Population intensity=20% of SD-1 band (1997Az05), 35% of SD-1 band (1995Va32). SD-2 and SD-3 bands are probably signature partners.
[r] Band(R): SD-3 band based on (9$^-$), α=1 (1997Az05,1995Va32). Other: 2001Hu18, 2001Ro20. Population intensity=20% of SD-1 band (1997Az05), 35% of SD-1 band (1995Va32). SD-2 and SD-3 bands are probably signature partners.
[s] Band(m): SD-4 band (1997Az05). Population intensity=5% of SD-1 band (1997Az05).
[t] Doppler-shift line shape analysis (Gating below). Values for "gating above" are given under comments (2002Ro30).

Adopted Levels, Gammas (continued)

$\gamma(^{196}Pb)$

A_2, A_4: deduced from the prompt γ-ray intensities (1986Va03).

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[c]	α[d]	Comments
1049.20	2^+	1049.21 *9*	100	0.0	0^+	E2		0.00608	α(K)=0.00486 *7*; α(L)=0.000928 *13*; α(M)=0.000220 *3*; α(N+..)=6.78×10^{-5} *10* B(E2)(W.u.)>6.5×10^{-5} Mult.: from α(K)exp=0.0046 *6* (1986Pa18); α(L)exp=0.00093 *9*, α(M)exp=0.0004 *1* (1987Va09), A_2=0.16 *4* (1986Va03).
1142.86	0^+	1142.7 *3*	100	0.0	0^+	E0			E_γ: 1143.4 *2* keV from 1984Va11 and 1984Va19. Mult.: K/L=5.95 *21* (1990Tr01), K/L=5.91 from calculation (1990Tr01).
1449.87	2^+	306.9 *3*	16 *2*	1142.86	0^+	E2		0.1081	α(K)=0.0617 *9*; α(L)=0.0348 *5*; α(M)=0.00892 *13*; α(N+..)=0.00270 *4* Mult.: doublet structure. α(K)exp=0.18 *3*, α(L)exp=0.020 *3* (1987Va09). B(E2;307γ)/B(E2;1450γ)=377 (1984Va11,1984Va19).
		400.9 *2*	91 *5*	1049.20	2^+	E0+M1+E2		0.374 *22*	Mult.: from α(K)exp=0.29 *2*, α(L)exp=0.068 *9*, α(M)exp=0.012 *3* (1987Va09). the conversion coefficient of the 401γ shows the presence of a strong E0 component.
		1449.7 *3*	100 *9*	0.0	0^+	E2		0.00335	α(K)=0.00269 *4*; α(L)=0.000464 *7*; α(M)=0.0001089 *16*; α(N+..)=8.26×10^{-5} *12* Mult.: α(K)exp=0.0026 *4* (1987Va09).
1697.8	0^+	1697.8 *5*	100	0.0	0^+	E0			Mult.: K/L=6.23 *36* (1990Tr01), K/L=6.00 from calculation (1990Tr01).
1738.27	4^+	288.7 *2*	1.4 *5*	1449.87	2^+	E2		0.13	α(K)=0.0712 *10*; α(L)=0.0439 *7*; α(M)=0.01130 *17*; α(N+..)=0.00341 *5* B(E2)(W.u.)>5.2×10^{-5} E_γ: seen from ε decay and (α,6nγ).
		689.00 *9*	100 *4*	1049.20	2^+	E2		0.0143	α(K)=0.01082 *16*; α(L)=0.00259 *4*; α(M)=0.000630 *9*; α(N+..)=0.000193 *3* B(E2)(W.u.)>5.2×10^{-5} Mult.: from α(K)exp=0.0087 *14*, α(L)exp=0.0026 *4*, α(M)exp=0.0009 *2* (1987Va09).
1797.51	5^-	59.23 *9*	100 *10*	1738.27	4^+	E1		0.375	B(E1)(W.u.)=4.6×10^{-6} *16* α(L)=0.287 *5*; α(M)=0.0682 *10*; α(N+..)=0.0202 *3* Mult.: from α(exp)=0.53 *15*, (L1+L2)/L3=2.0 *4* (1986Pa18). α(exp): from the intensity balance.
		748.4 *3*	11 *1*	1049.20	2^+	E3		0.0313	α(K)=0.0211 *3*; α(L)=0.00763 *11*; α(M)=0.00192 *3*; α(N+..)=0.000590 *9* B(E3)(W.u.)=1.9 *5* α: E3 α(theory)'s mult. By 0.975 *10* (Cf. 1990Ne01). Mult.: from α(K)exp=0.024 *3* (1987Va09), α(K)exp=0.017 *3* (1986Va03), A_2=0.3 *1*, A_4=−0.2 *2* (1986Va03).
1825.60	3^+,4^+	375.5 *2*	9 *2*	1449.87	2^+				I_γ: from sum of ε decay relative to 100 for 1049γ (1987Va09).
		776.6 *2*	100 *7*	1049.20	2^+	E2(+M1)	2.0	0.01574	α(K)=0.01252 *18*; α(L)=0.00246 *4*; α(M)=0.000586 *9*; α(N+..)=0.000181 *3* I_γ: from sum of ε decay relative to 100 for 1049γ (1987Va09).

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Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[c]	α[d]	Comments
									Mult.: α(K)exp=0.011 *2* (1987Va09), α(L)exp=0.0032 *6* (1987Va09). δ: from α(K)exp and α(L)exp (evaluators).
1861.7	(4$^+$)	411.8 *5*	100	1449.87	2$^+$				E_γ,I_γ: from (α,6nγ).
1896.10	2$^+$	753.4[e] *2*	58[e] *25*	1142.86	0$^+$	E2		0.0117 *9*	α(K)=0.00909 *13*; α(L)=0.00205 *3*; α(M)=0.000496 *7*; α(N+..)=0.0001520 *22* I_γ: from sum of ε decay relative to 100 for 1049γ (1987Va09). Mult.: From α(K)exp=0.011 *2* (1987Va09). α=0.01189 for E2, α=0.03876 for M1.
		846.7 *2*	100 *8*	1049.20	2$^+$	E2+(M1)	1.83	0.01348	α(K)=0.01080 *16*; α(L)=0.00204 *3*; α(M)=0.000485 *7*; α(N+..)=0.0001495 *21* I_γ: from 1987Va09. δ: from α(K)exp and α(L)exp. Mult.: from α(K)exp=0.011 *2* (1987Va09).
		1896.3 *5*	38 *17*	0.0	0$^+$				I_γ: from 1987Va09.
1991.61	2$^-$,3$^-$	942.4 *2*	100	1049.20	2$^+$	E1		0.00279	α(K)=0.00232 *4*; α(L)=0.000356 *5*; α(M)=8.21×10^{-5} *12*; α(N+..)=2.53×10^{-5} *4* α(K)exp=0.0027 *6* I_γ: from ε decay (308 s). Mult.: from α(K)exp=0.0027 *6* (1987Va09).
2060.06	(1$^-$,2$^+$)	916.8 *3*	33 *25*	1142.86	0$^+$				I_γ: from ε decay (308 s).
		1011.1 *3*	100 *17*	1049.20	2$^+$				I_γ: from ε decay (308 s).
		2060.9 *7*	17 *8*	0.0	0$^+$				I_γ: from ε decay (308 s).
2124.42	(1$^-$,2,3)	674.6 *2*	100 *20*	1449.87	2$^+$				I_γ: from ε decay (308 s).
		1075.0 *4*	70 *50*	1049.20	2$^+$				
2169.43	7$^-$	371.93 *8*	100	1797.51	5$^-$	E2		0.0627	α(K)=0.0397 *6*; α(L)=0.01728 *25*; α(M)=0.00438 *7*; α(N+..)=0.001328 *19* B(E2)(W.u.)>0.22 Mult.: from α(K)exp=0.039 *4*, α(L)exp=0.015 *3* (1986Pa18); α(L)exp=0.017 *2*, α(M)exp=0.0058 *9* (1987Va09);A_2=0.13 *3*, A_4=−0.04 *4*(1986Va03).
2203.27	4$^+$	753.4[e] *2*	100[e]	1449.87	2$^+$	E2		0.01179	α(K)=0.00909 *13*; α(L)=0.00205 *3*; α(M)=0.000496 *7*; α(N+..)=0.0001520 *22* I_γ: from ε decay (308 s+240 s). α(K)exp=0.011 *2* (1987Va09). Mult.: from α(K)exp and the lack of a competitive transition to other levels (an enhanced stretched E2).
2307.84	9$^-$	138.41 *7*	100	2169.43	7$^-$	E2		1.67	α(K)=0.366 *6*; α(L)=0.971 *14*; α(M)=0.256 *4*; α(N+..)=0.0766 *11* B(E2)(W.u.)=1.17 *12* Mult.: from α(L)exp=1.2 *1*, α(M)exp=0.28 *3* (1987Va09), α(L)exp=0.950 *75*, α(L3)exp=0.391 *55* (1986Pa18); A_2=0.11 *7*, A_4=−0.03 *5* (1986Va03).
2333.9	(8$^-$)	164.4 *6*	100	2169.43	7$^-$	M1		2.29	α(K)=1.87 *4*; α(L)=0.322 *6*; α(M)=0.0756 *14*; α(N+..)=0.0234 *4* I_γ: from ε decay (240 s).

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Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
2376.05	(5)$^+$,(6)$^+$	550.4 *3*	12 *6*	1825.60	3$^+$,4$^+$			E_γ,I_γ: from ε decay.
		637.8 *2*	100 *18*	1738.27	4$^+$	E2	0.01682	α(K)=0.01261 *18*; α(L)=0.00319 *5*; α(M)=0.000780 *11*; α(N+..)=0.000239 *4* E_γ,I_γ: from ε decay. Mult.: from α(K)exp=0.014 *3* (1987Va09).
2423.9	(6$^+$)	562.2 *5*	100	1861.7	(4$^+$)			E_γ,I_γ: from (α,6nγ).
2470.77	(3,4,5$^-$)	732.5 *2*	100	1738.27	4$^+$			E_γ,I_γ: from ε decay (308 s).
2590.9	8$^-$	283.0 *6*	35 *9*	2307.84	9$^-$	M1	0.504	α(K)=0.412 *7*; α(L)=0.0705 *11*; α(M)=0.0165 *3*; α(N+..)=0.00512 *8*
		421.2 *4*	100 *15*	2169.43	7$^-$	E2	0.0449	α(K)=0.0300 *5*; α(L)=0.01124 *16*; α(M)=0.00283 *4*; α(N+..)=0.000859 *13* α(exp) ≤ 0.03 (1986Va03).
2621.9	(8$^+$)	198.0 *5*	100	2423.9	(6$^+$)	[E2]	0.449	α(K)=0.174; α(L)=0.205; α(M)=0.0533; α(N+..)=0.0171 B(E2)(W.u.)=0.38 *12* E_γ,I_γ: from (α,6nγ).
2630	(8$^+$)	38		2590.9	8$^-$			E_γ: From 2005Dr11.
		461		2169.43	7$^-$			E_γ: From 2005Dr11.
2645.12	10$^+$	54		2590.9	8$^-$			E_γ: From 2005Dr11.
		337.29 *7*	100	2307.84	9$^-$	E1	0.0226	α(K)=0.0185 *3*; α(L)=0.00309 *5*; α(M)=0.000722 *11*; α(N+..)=0.000221 *3* B(E1)(W.u.)>2.6×10^{-6} Mult.: from α(K)exp=0.0194 *15*, α(L)exp=0.004 *1* (1987Va09), A_2=−0.07 *3*, A_4=0.03 *5*; R(DCO)=1.52 *16* (1986Va03). I(γ+ce)=87.5 *17* from 1986Pa18.
2694.6	12$^+$	47.7 *5*	100	2645.12	10$^+$	(E2)	206	α(L)=151 *9*; α(M)=39.6 *22*; α(N+..)=11.8 *7* B(E2)(W.u.)=0.61 *4* α: from 1989Su12. Other: 200.6 from 1986Pa16. E_γ: from conversion electron measurement (1989Su12). Others: 47.9 (1986Pa18), 50.7 (1986Va03), 49.0 *5* (1986Pa16), 50.0 *3* (2002Si20).
3037.9	9$^-$	868.5 *6*	100	2169.43	7$^-$	E2	0.00882	α(K)=0.00692 *10*; α(L)=0.001440 *21*; α(M)=0.000345 *5*; α(N+..)=0.0001061 *15*
3041.5	4$^+$	665.4 *2*	100	2376.05	(5)$^+$,(6)$^+$	E2	0.01534	α(K)=0.01159 *17*; α(L)=0.00284 *4*; α(M)=0.000693 *10*; α(N+..)=0.000212 *3* E_γ,I_γ: from ε decay. Mult.: from α(K)exp=0.011 *2* (1987Va09).
3042.8	9$^-$	873.3 *6*	100	2169.43	7$^-$	E2	0.00872	α(K)=0.00685 *10*; α(L)=0.001421 *20*; α(M)=0.000341 *5*; α(N+..)=0.0001047 *15*
3087.1	9$^-$	496.0 *6*	100	2590.9	8$^-$	M1	0.1112	α(K)=0.0912 *13*; α(L)=0.01537 *22*; α(M)=0.00359 *6*; α(N+..)=0.001114 *16* Mult.: 1987Va09 suggests M1+(E2) based on α(K)exp=0.062 *9*, α(L)exp=0.018 *4*.
3192.67	11$^-$	497.8 *2*	100 *2*	2694.6	12$^+$	E1	0.00965	α(K)=0.00798 *12*; α(L)=0.001284 *18*; α(M)=0.000298 *5*; α(N+..)=9.15×10^{-5} *13* Mult.: from α(exp)<0.025, A_2=−0.16 *9*, A_4=−0.2 *3*, R(DCO)=0.9 *2* (1986Va03). B(E1)=4.20 × 10^{-8} 22 (2005Dr11).
		547.8 *2*	36 *1*	2645.12	10$^+$	E1	0.00792	α(K)=0.00656 *10*; α(L)=0.001046 *15*; α(M)=0.000243 *4*;

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Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
								α(N+..)=7.45×10^{-5} *11* B(E1)=1.13 × 10^{-8} 7 (2005Dr11).
3192.67	11$^-$	562	7.3 *6*	2630	(8$^+$)	E3	0.0686	α(K)=0.0398 *6*; α(L)=0.0216 *3*; α(M)=0.00556 *8*; α(N+..)=0.001698 *24* B(E3)=5.94 × 10^4 56 (2005Dr11).
		884	3.1 *4*	2307.84	9$^-$	E2	0.00851	α(K)=0.00670 *10*; α(L)=0.001380 *20*; α(M)=0.000331 *5*; α(N+..)=0.0001016 *15* B(E2)=3.7 × 10^{-4} 6 (2005Dr11).
3280.8	10$^-$	238.0 *6*	6 *2*	3042.8	9$^-$	M1	0.813 *13*	α(K)=0.664 *11*; α(L)=0.1139 *18*; α(M)=0.0267 *5*; α(N+..)=0.00828 *13*
		946.9 *4*	100 *18*	2333.9	(8$^-$)	E2	0.00742	α(K)=0.00588 *9*; α(L)=0.001173 *17*; α(M)=0.000280 *4*; α(N+..)=8.61×10^{-5} *12*
		973.1 *4*	98 *18*	2307.84	9$^-$	M1	0.0193	α(K)=0.01584 *23*; α(L)=0.00262 *4*; α(M)=0.000610 *9*; α(N+..)=0.000189 *3*
3338.4	11$^-$	1030.6 *4*	100	2307.84	9$^-$	E2	0.00629	α(K)=0.00503 *7*; α(L)=0.000966 *14*; α(M)=0.000230 *4*; α(N+..)=7.07×10^{-5} *10*
3394.1	10$^-$	306.9[e] *3*	75[e] *25*	3087.1	9$^-$	M1	0.403	α(K)=0.330 *5*; α(L)=0.0563 *9*; α(M)=0.01318 *20*; α(N+..)=0.00409 *7* Mult.: doublet structure. α(K)exp=0.18 *3*, α(L)exp=0.020 *3* (1987Va09). α: α=0.418 for M1, α=0.109 for E2. E_γ,I_γ: from ε decay (240 s).
		749.0 *2*	<100	2645.12	10$^+$			E_γ,I_γ: from ε decay (240 s).
		803.1 *5*	50 *25*	2590.9	8$^-$	E2	0.01033	α(K)=0.00804 *12*; α(L)=0.001745 *25*; α(M)=0.000420 *6*; α(N+..)=0.0001290 *19* E_γ,I_γ: from ε decay (240 s).
3460.9	12$^+$	766.0 *4*	77 *17*	2694.6	12$^+$	M1	0.0357	α(K)=0.0293 *5*; α(L)=0.00487 *7*; α(M)=0.001138 *16*; α(N+..)=0.000353 *5*
		816.0 *4*	100 *16*	2645.12	10$^+$	E2	0.01000	α(K)=0.00780 *11*; α(L)=0.001677 *24*; α(M)=0.000404 *6*; α(N+..)=0.0001239 *18*
3508.6	11$^-$	470.7 *6*	100	3037.9	9$^-$	E2	0.0341	α(K)=0.0236 *4*; α(L)=0.00786 *12*; α(M)=0.00196 *3*; α(N+..)=0.000597 *9*
3654.3	14$^+$	959.69 *9*	100	2694.6	12$^+$	E2	0.00723	α(K)=0.00574 *8*; α(L)=0.001137 *16*; α(M)=0.000271 *4*; α(N+..)=8.35×10^{-5} *12* E_γ: seen In delayed coincidence with 48γ transition (1989Su12). Mult.: from α(exp)=0.005 *1*, A_2=0.28 *4*, A_4=−0.09 *5*,
3669.4	10$^-$	582.3 *6*	100	3087.1	9$^-$	M1	0.0729	α(K)=0.0598 *9*; α(L)=0.01003 *15*; α(M)=0.00234 *4*; α(N+..)=0.000727 *11*
3738.7	12$^-$	546.0 *2*	100	3192.67	11$^-$	M1	0.0863	α(K)=0.0708 *10*; α(L)=0.01190 *17*; α(M)=0.00278 *4*; α(N+..)=0.000862 *13* I_γ: total intensity of a complex peak (1986Va03). 3.1 *2* (1995Mo01). Mult.: 1986Va03 suggests (E2+M1) from α(exp)=0.022 *7*, A_2=0.22 *10*, A_4=−0.2 *2*.
3828.8	12$^-$	490.5 *6*	20 *4*	3338.4	11$^-$	M1	0.1146	α(K)=0.0939 *14*; α(L)=0.01583 *23*; α(M)=0.00370 *6*; α(N+..)=0.001148 *17*
		548.0 *6*	100 *18*	3280.8	10$^-$	E2	0.0237	α(K)=0.01717 *25*; α(L)=0.00493 *7*; α(M)=0.001217 *18*; α(N+..)=0.000371 *6*
3863.4		1168.7 *6*	100	2694.6	12$^+$			
3885.6	11$^-$	491.4 *6*	100 *23*	3394.1	10$^-$	M1	0.1140	α(K)=0.0935 *14*; α(L)=0.01575 *23*; α(M)=0.00368 *6*; α(N+..)=0.001142 *17*
		798.5 *6*	76 *18*	3087.1	9$^-$	E2	0.01045	α(K)=0.00813 *12*; α(L)=0.00177 *3*; α(M)=0.000426 *6*; α(N+..)=0.0001309 *19*
3917.7	14$^+$	263.9 *6*	13 *4*	3654.3	14$^+$	M1	0.611 *10*	α(K)=0.499 *8*; α(L)=0.0855 *14*; α(M)=0.0200 *3*; α(N+..)=0.00621 *10*
		456.6 *4*	71 *16*	3460.9	12$^+$	E2	0.0367	α(K)=0.0252 *4*; α(L)=0.00866 *13*; α(M)=0.00217 *3*; α(N+..)=0.000659 *10*
		1222.6 *4*	100 *15*	2694.6	12$^+$	E2	0.00454	α(K)=0.00367 *6*; α(L)=0.000663 *10*; α(M)=0.0001565 *22*; α(N+..)=5.42×10^{-5} *8*
4028.4	11$^-$	634.3 *6*	100	3394.1	10$^-$	M1	0.0583	α(K)=0.0478 *7*; α(L)=0.00800 *12*; α(M)=0.00187 *3*; α(N+..)=0.000580 *9*
4031.8	13$^-$	523.1 *6*	47 *11*	3508.6	11$^-$	E2	0.0264	α(K)=0.0189 *3*; α(L)=0.00566 *9*; α(M)=0.001403 *21*; α(N+..)=0.000428 *7*
		693.5 *6*	100 *18*	3338.4	11$^-$	E2	0.01404	α(K)=0.01068 *15*; α(L)=0.00254 *4*; α(M)=0.000618 *9*; α(N+..)=0.000189 *3*
4047.3	13$^-$	308.6 *4*	34 *6*	3738.7	12$^-$	M1	0.398	α(K)=0.325 *5*; α(L)=0.0555 *8*; α(M)=0.01300 *19*; α(N+..)=0.00403 *6*
		854.6 *2*	100 *12*	3192.67	11$^-$	E2	0.00911	α(K)=0.00714 *10*; α(L)=0.001498 *21*; α(M)=0.000359 *5*; α(N+..)=0.0001104 *16*
4067.8	12$^-$	875.0 *6*	100	3192.67	11$^-$	M1	0.0253	α(K)=0.0208 *3*; α(L)=0.00345 *5*; α(M)=0.000804 *12*; α(N+..)=0.000249 *4*
4121.8	15$^-$	203.7 *6*	1.7 *4*	3917.7	14$^+$	E1	0.0746 *12*	α(K)=0.0606 *10*; α(L)=0.01070 *17*; α(M)=0.00251 *4*; α(N+..)=0.000762 *13*

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Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
4121.8	15⁻	467.6 *2*	100 *10*	3654.3	14⁺	E1	0.01101	α(K)=0.00909 *13*; α(L)=0.001471 *21*; α(M)=0.000342 *5*; α(N+..)=0.0001049 *15* Mult.: from α(exp)=0.012 *2*, A_2=−0.20 *3*, A_4=0.00 *5*, R(DCO)=2.21 *9* (1986Va03); DCO=0.60 *7*, R(pol)=+0.038 *4*, pol=+0.20 *4* (2002Si20).
4218.9	16⁺	564.7 *2*	100	3654.3	14⁺	E2	0.0221	α(K)=0.01614 *23*; α(L)=0.00451 *7*; α(M)=0.001112 *16*; α(N+..)=0.000339 *5* Mult.: from α(exp)=0.014 *2*, A_2=0.31 *7*,A_4=−0.03 *8*, R(DCO)=1.06 *12* (1986Va03); DCO=1.00 (2002Si20).
4280.0	11⁻	610.6 *6*	100	3669.4	10⁻	M1	0.0644	α(K)=0.0528 *8*; α(L)=0.00885 *13*; α(M)=0.00207 *3*; α(N+..)=0.000641 *10*
4333.4	16⁺	415.3 *6*	8 *2*	3917.7	14⁺	E2	0.0467	α(K)=0.0310 *5*; α(L)=0.01183 *18*; α(M)=0.00298 *5*; α(N+..)=0.000905 *14*
		679.2 *2*	100 *13*	3654.3	14⁺	E2	0.01468	α(K)=0.01113 *16*; α(L)=0.00269 *4*; α(M)=0.000655 *10*; α(N+..)=0.000201 *3* Mult.: from α(exp)=0.018 *3*, R(DCO)=1.1 *1* (1986Va03); DCO=1.00, R(pol)=+0.091 *7*, pol=+0.59 *10* (2002Si20).
4384.6	12⁻	499.1 *6*	38 *12*	3885.6	11⁻	M1	0.1094	α(K)=0.0897 *13*; α(L)=0.01511 *22*; α(M)=0.00353 *5*; α(N+..)=0.001096 *16*
		990.5 *6*	100 *23*	3394.1	10⁻	E2	0.00680	α(K)=0.00541 *8*; α(L)=0.001057 *15*; α(M)=0.000252 *4*; α(N+..)=7.75×10^{-5} *11*
4384.8	14⁻	353.1 *6*	14 *5*	4031.8	13⁻	M1	0.276	α(K)=0.226 *4*; α(L)=0.0384 *6*; α(M)=0.00899 *14*; α(N+..)=0.00279 *5*
		556.1 *6*	100 *19*	3828.8	12⁻	E2	0.0229	α(K)=0.01666 *24*; α(L)=0.00472 *7*; α(M)=0.001164 *17*; α(N+..)=0.000355 *6*
4430.4	14⁻	601.7 *6*	100	3828.8	12⁻	E2	0.0191	α(K)=0.01418 *20*; α(L)=0.00376 *6*; α(M)=0.000922 *14*; α(N+..)=0.000282 *4*
4479.6	16⁻	357.8 *2*	100	4121.8	15⁻	M1	0.266	α(K)=0.218 *3*; α(L)=0.0371 *6*; α(M)=0.00867 *13*; α(N+..)=0.00269 *4* B(M1)(W.u.)=2.26×10^{-8} *13* δ=1.5 *+20−5* or δ=−3.0 +1.0−∞ (1986Va03). Mult.: 1986Va03 suggests M1+E2 from α(K)exp=0.12 *2*, α(L)exp=0.05 *1*, A_2=−0.15 *3*, A_4=−0.18 *4*, R(DCO)=0.83 *8* (1986Va03).
4542.5	(12⁻)	514.1 *6*	100	4028.4	11⁻	(M1)	0.1012	α(K)=0.0829 *12*; α(L)=0.01396 *20*; α(M)=0.00326 *5*; α(N+..)=0.001012 *15*
4549.9	12⁻	269.9 *6*	82 *16*	4280.0	11⁻	M1	0.575 *9*	α(K)=0.470 *8*; α(L)=0.0803 *13*; α(M)=0.0188 *3*; α(N+..)=0.00584 *9*
		664.3 *6*	100 *27*	3885.6	11⁻	M1	0.0517	α(K)=0.0424 *6*; α(L)=0.00708 *10*; α(M)=0.001654 *24*; α(N+..)=0.000513 *8*
4551.4		519.7 *6*	100	4031.8	13⁻			
4561.0	15⁻	130.6 *6*	8 *3*	4430.4	14⁻	M1	4.40 *9*	α(K)=3.59 *7*; α(L)=0.621 *12*; α(M)=0.146 *3*; α(N+..)=0.0452 *9*
		176.2 *6*	100 *22*	4384.8	14⁻	M1	1.88 *4*	α(K)=1.54 *3*; α(L)=0.265 *5*; α(M)=0.0621 *11*; α(N+..)=0.0193 *4*
4581.7	(13⁻)	513.9 *6*	100	4067.8	12⁻	(M1)	0.1013	α(K)=0.0830 *12*; α(L)=0.01398 *20*; α(M)=0.00327 *5*; α(N+..)=0.001013 *15*
4582.5	14⁻	535.1 *6*	100	4047.3	13⁻	M1	0.0910	α(K)=0.0746 *11*; α(L)=0.01255 *18*; α(M)=0.00293 *5*; α(N+..)=0.000910 *13*
4586.0	13⁻	201.4 *6*	100	4384.8	14⁻	M1	1.294 *22*	α(K)=1.057 *18*; α(L)=0.182 *3*; α(M)=0.0426 *7*; α(N+..)=0.01321 *22*
4589.4	12⁺	521.7 *6*	42 *12*	4067.8	12⁻	E1	0.00876	α(K)=0.00725 *11*; α(L)=0.001160 *17*; α(M)=0.000269 *4*; α(N+..)=8.27×10^{-5} *12*
		1128.5 *6*	17 *5*	3460.9	12⁺	M1	0.01318	α(K)=0.01085 *16*; α(L)=0.00178 *3*; α(M)=0.000416 *6*; α(N+..)=0.0001298 *19*
		1396.7 *6*	100 *27*	3192.67	11⁻	E1	1.50×10^{-3}	α(K)=0.001166 *17*; α(L)=0.0001747 *25*; α(M)=4.02×10^{-5} *6*; α(N+..)=0.0001164 *17*
		1894.5 *6*	35 *12*	2694.6	12⁺	M1	0.00389	α(K)=0.00292 *4*; α(L)=0.000473 *7*; α(M)=0.0001100 *16*; α(N+..)=0.000393 *6*
		1944.5 *6*	35 *12*	2645.12	10⁺	E2	0.00216	α(K)=0.001587 *23*; α(L)=0.000258 *4*; α(M)=6.01×10^{-5} *9*; α(N+..)=0.000258 *4*
4625.4	13⁻	578.2 *6*	18 *5*	4047.3	13⁻	M1	0.0743	α(K)=0.0609 *9*; α(L)=0.01022 *15*; α(M)=0.00239 *4*; α(N+..)=0.000740 *11*
		761.9 *6*		3863.4				
		1164.6 *6*	28 *6*	3460.9	12⁺	E1	0.00192	α(K)=0.001596 *23*; α(L)=0.000241 *4*; α(M)=5.55×10^{-5} *8*; α(N+..)=2.40×10^{-5} *4*
		1930.6 *6*	100 *28*	2694.6	12⁺	E1	1.29×10^{-3}	α(K)=0.000681 *10*; α(L)=0.0001006 *14*; α(M)=2.31×10^{-5} *4*; α(N+..)=0.000487 *7*

$^{196}_{82}Pb_{114}$-14

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ [†]	I_γ [‡]	E_f	J_f^π	Mult. [#]	α [d]	Comments
4647.7	16⁻	525.9 *4*	100	4121.8	15⁻	M1	0.0953	α(K)=0.0781 *11*; α(L)=0.01314 *19*; α(M)=0.00307 *5*; α(N+..)=0.000953 *14* δ=−0.4 *+3−40* (1986Va03). Mult.: 1986Va03 suggests M1+E2 from α(exp)=0.057 *15*, A_2=−0.3 *1*, A_4=0.3 *2*, R(DCO)=0.85 *17* (1986Va03).
4652.9	15⁻	531.6 *6*	1.7 *4*	4121.8	15⁻	M1	0.0926	α(K)=0.0759 *11*; α(L)=0.01277 *19*; α(M)=0.00298 *5*; α(N+..)=0.000926 *14*
		605.5 *2*	100 *12*	4047.3	13⁻	E2	0.0189	α(K)=0.01400 *20*; α(L)=0.00369 *6*; α(M)=0.000905 *13*; α(N+..)=0.000277 *4*
		621.2 *6*	5 *1*	4031.8	13⁻	E2	0.0178	α(K)=0.01330 *19*; α(L)=0.00343 *5*; α(M)=0.000841 *12*; α(N+..)=0.000257 *4*
4658.1	14⁺	590.2 *6*	63 *17*	4067.8	12⁻	(M2)	0.193	α(K)=0.1522 *22*; α(L)=0.0310 *5*; α(M)=0.00746 *11*; α(N+..)=0.00232 *4*
		740.4 *6*	67 *18*	3917.7	14⁺	M1	0.0390	α(K)=0.0320 *5*; α(L)=0.00533 *8*; α(M)=0.001244 *18*; α(N+..)=0.000386 *6*
		1197.0 *6*	100 *31*	3460.9	12⁺	E2	0.00473	α(K)=0.00381 *6*; α(L)=0.000694 *10*; α(M)=0.0001639 *23*; α(N+..)=5.41×10^{-5} *8*
4676.7	17⁻	197.1 *6*	100 *18*	4479.6	16⁻	M1	1.375 *23*	α(K)=1.122 *19*; α(L)=0.193 *4*; α(M)=0.0452 *8*; α(N+..)=0.01404 *23* Mult.: 1986Va03 suggests (E2) from R(DCO)=1.1 *3*.
		554.9 *6*	82 *18*	4121.8	15⁻	E2	0.0230	α(K)=0.01673 *24*; α(L)=0.00475 *7*; α(M)=0.001172 *17*; α(N+..)=0.000358 *6*
4696.0	15⁻	664.2 *6*	100	4031.8	13⁻	E2	0.01540	α(K)=0.01163 *17*; α(L)=0.00286 *4*; α(M)=0.000696 *10*; α(N+..)=0.000213 *3*
4723.9	17⁻	244.3 *2*	100	4479.6	16⁻	M1	0.756	α(K)=0.618 *9*; α(L)=0.1059 *15*; α(M)=0.0248 *4*; α(N+..)=0.00770 *11* δ=0.3 *+1−5* from α(K)exp and α(L)exp (1986Va03). Mult.: 1986Va03 suggests M1+E2 from α(K)exp=0.48 *15*, α(L)exp=0.087 *17*, A_2=0.25 *4*, A_4=0.10 *6*, R(DCO)=0.71 *15* (1986Va03).
4748.4	15⁺	90.0 *6*		4658.1	14⁺	M1	12.6 *3*	α(K)=10.25 *22*; α(L)=1.82 *5*; α(M)=0.426 *11*; α(N+..)=0.132 *4*
		415.1 *6*	100 *26*	4333.4	16⁺	M1	0.179	α(K)=0.1463 *22*; α(L)=0.0248 *4*; α(M)=0.00580 *9*; α(N+..)=0.00180 *3*
4803.8	(18⁻)	79.9 *6*	100	4723.9	17⁻			
4817.7	16⁺	484.4 *6*	66 *19*	4333.4	16⁺	M1	0.1184	α(K)=0.0971 *14*; α(L)=0.01637 *24*; α(M)=0.00383 *6*; α(N+..)=0.001187 *17*
		899.7 *6*	100 *26*	3917.7	14⁺	E2	0.00822	α(K)=0.00648 *10*; α(L)=0.001323 *19*; α(M)=0.000317 *5*; α(N+..)=9.74×10^{-5} *14*
4843.5	16⁻	721.7 *6*	100	4121.8	15⁻	M1	0.0416	α(K)=0.0342 *5*; α(L)=0.00570 *8*; α(M)=0.001330 *19*; α(N+..)=0.000413 *6*
4849.5	16⁺	101.1 *6*	100	4748.4	15⁺	M1	9.13 *21*	α(K)=7.44 *17*; α(L)=1.30 *3*; α(M)=0.304 *7*; α(N+..)=0.0944 *21*
4852.7	16⁺	104.3 *6*	100	4748.4	15⁺	M1	8.36 *19*	α(K)=6.81 *15*; α(L)=1.19 *3*; α(M)=0.278 *6*; α(N+..)=0.0863 *19*
4864.2	16⁻	303.2 *6*	100 *23*	4561.0	15⁻	M1	0.418	α(K)=0.342 *6*; α(L)=0.0583 *9*; α(M)=0.01365 *21*; α(N+..)=0.00423 *7*
		312.8 *6*	7 *2*	4551.4				
4899.0	15⁻	316.5 *6*	48 *12*	4582.5	14⁻	M1	0.372	α(K)=0.304 *5*; α(L)=0.0518 *8*; α(M)=0.01213 *19*; α(N+..)=0.00376 *6*
		851.6 *6*	100 *27*	4047.3	13⁻	E2	0.00917	α(K)=0.00719 *11*; α(L)=0.001510 *22*; α(M)=0.000363 *6*; α(N+..)=0.0001114 *16*
4964.1	18⁺	630.7 *2*	100 *11*	4333.4	16⁺	E2	0.01724	α(K)=0.01290 *18*; α(L)=0.00329 *5*; α(M)=0.000805 *12*; α(N+..)=0.000246 *4* Mult.: from α(exp)=0.014 *3*, A_2=0.28 *11*, A_4=−0.08 *10*, R(DCO)=0.9 *1* (1986Va03); DCO=1.02 *13* (2002Si20).
		745.2 *2*	77 *9*	4218.9	16⁺	E2	0.01206	α(K)=0.00928 *13*; α(L)=0.00211 *3*; α(M)=0.000510 *8*; α(N+..)=0.0001564 *22* Mult.: from α(exp)=0.006 *2*, A_2=0.3 *1*, A_4=−0.3 *2*, R(DCO)=1.1 *1* (1986Va03); DCO=1.02 *13* (2002Si20). I_γ: deduced from the coincidence data, about 67% of the total intensity of the doublet (1986Va03).
4971.7	17⁻	849.9 *6*	100	4121.8	15⁻	E2	0.00921	α(K)=0.00721 *11*; α(L)=0.001518 *22*; α(M)=0.000364 *6*; α(N+..)=0.0001119 *16*
4985.8	15⁻	938.4 *6*	100	4047.3	13⁻	E2	0.00756	α(K)=0.00598 *9*; α(L)=0.001198 *17*; α(M)=0.000286 *4*; α(N+..)=8.80×10^{-5} *13*
4995.7	17⁺	142.9 *6*	100 *25*	4852.7	16⁺	M1	3.41 *7*	α(K)=2.78 *6*; α(L)=0.480 *9*; α(M)=0.1126 *21*; α(N+..)=0.0349 *7*
		146.1 *6*	56 *16*	4849.5	16⁺	M1	3.20 *6*	α(K)=2.61 *5*; α(L)=0.451 *9*; α(M)=0.1057 *20*; α(N+..)=0.0328 *6*
		662.3 *6*	48 *11*	4333.4	16⁺	M1	0.0521	α(K)=0.0427 *6*; α(L)=0.00714 *11*; α(M)=0.001667 *24*; α(N+..)=0.000517 *8*
		776.8 *6*	29 *9*	4218.9	16⁺	M1	0.0344	α(K)=0.0283 *4*; α(L)=0.00470 *7*; α(M)=0.001097 *16*; α(N+..)=0.000340 *5*

$^{196}_{82}Pb_{114}$-15

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
5035.5	17$^+$	182.7 *4*	100 *15*	4852.7	16$^+$	M1	1.70 *3*	α(K)=1.388 *22*; α(L)=0.239 *4*; α(M)=0.0560 *9*; α(N+..)=0.0174 *3*
		217.7 *6*	16 *4*	4817.7	16$^+$	M1	1.042 *17*	α(K)=0.851 *14*; α(L)=0.1461 *24*; α(M)=0.0342 *6*; α(N+..)=0.01062 *17*
		702.1 *6*	25 *5*	4333.4	16$^+$	M1	0.0447	α(K)=0.0367 *6*; α(L)=0.00612 *9*; α(M)=0.001430 *21*; α(N+..)=0.000443 *7*
		816.6 *6*	13 *3*	4218.9	16$^+$	M1	0.0302	α(K)=0.0249 *4*; α(L)=0.00413 *6*; α(M)=0.000962 *14*; α(N+..)=0.000299 *5*
5155.1	16$^-$	502.2 *2*	100 *12*	4652.9	15$^-$	M1	0.1077	α(K)=0.0882 *13*; α(L)=0.01486 *21*; α(M)=0.00347 *5*; α(N+..)=0.001078 *16*
		724.7 *6*	2.3 *6*	4430.4	14$^-$	E2	0.01279	α(K)=0.00980 *14*; α(L)=0.00227 *4*; α(M)=0.000549 *8*; α(N+..)=0.0001684 *24*
		770.3 *6*	2.2 *5*	4384.8	14$^-$	E2	0.01126	α(K)=0.00871 *13*; α(L)=0.00194 *3*; α(M)=0.000468 *7*; α(N+..)=0.0001435 *21*
5166.3	18$^-$	322.8 *6*	21 *5*	4843.5	16$^-$	E2	0.0933 *14*	α(K)=0.0549 *8*; α(L)=0.0288 *5*; α(M)=0.00737 *12*; α(N+..)=0.00223 *4*
		518.6 *6*	14 *3*	4647.7	16$^-$	E2	0.0270	α(K)=0.0193 *3*; α(L)=0.00581 *9*; α(M)=0.001442 *21*; α(N+..)=0.000440 *7*
		686.7 *6*	100 *17*	4479.6	16$^-$	E2	0.01434	α(K)=0.01089 *16*; α(L)=0.00261 *4*; α(M)=0.000635 *9*; α(N+..)=0.000195 *3*
5173.3	16$^-$	187.5 *6*	28 *9*	4985.8	15$^-$	M1	1.58 *3*	α(K)=1.291 *22*; α(L)=0.222 *4*; α(M)=0.0521 *9*; α(N+..)=0.0162 *3*
		520.4 *6*	100 *25*	4652.9	15$^-$	M1	0.0980	α(K)=0.0803 *12*; α(L)=0.01352 *20*; α(M)=0.00316 *5*; α(N+..)=0.000980 *14*
		612.3 *6*	45 *14*	4561.0	15$^-$	M1	0.0639	α(K)=0.0524 *8*; α(L)=0.00878 *13*; α(M)=0.00205 *3*; α(N+..)=0.000636 *9*
		788.5 *6*	82 *21*	4384.8	14$^-$	E2	0.01073	α(K)=0.00833 *12*; α(L)=0.00183 *3*; α(M)=0.000440 *7*; α(N+..)=0.0001352 *20*
5188.4	18$^+$	192.7 *2*	100	4995.7	17$^+$	M1	1.464	α(K)=1.196 *17*; α(L)=0.206 *3*; α(M)=0.0482 *7*; α(N+..)=0.01496 *22*
5212.1	17$^-$	347.9 *6*	100 *28*	4864.2	16$^-$	M1	0.287	α(K)=0.235 *4*; α(L)=0.0400 *6*; α(M)=0.00936 *14*; α(N+..)=0.00290 *5*
		651.1 *6*	16 *5*	4561.0	15$^-$	E2	0.01608	α(K)=0.01210 *17*; α(L)=0.00302 *5*; α(M)=0.000736 *11*; α(N+..)=0.000225 *4*
5235.8	17$^-$	80.7 *6*		5155.1	16$^-$	M1	3.26 *9*	α(L)=2.49 *7*; α(M)=0.585 *16*; α(N+..)=0.182 *5*
		582.9 *6*	100	4652.9	15$^-$	E2	0.0206	α(K)=0.01513 *22*; α(L)=0.00411 *6*; α(M)=0.001012 *15*; α(N+..)=0.000309 *5*
5255.3	19$^-$	578.6 *6*	100	4676.7	17$^-$	E2	0.0209	α(K)=0.01536 *22*; α(L)=0.00420 *6*; α(M)=0.001034 *15*; α(N+..)=0.000316 *5*
5265.2	16$^-$	612.3 *6*	100	4652.9	15$^-$	M1	0.0639	α(K)=0.0524 *8*; α(L)=0.00878 *13*; α(M)=0.00205 *3*; α(N+..)=0.000636 *9*
5283.6	18$^+$	248.1 *4*	100	5035.5	17$^+$	M1	0.725	α(K)=0.592 *9*; α(L)=0.1015 *15*; α(M)=0.0238 *4*; α(N+..)=0.00737 *11*
5329.8	16$^-$	430.8 *6*	100 *24*	4899.0	15$^-$	M1	0.1618	α(K)=0.1325 *20*; α(L)=0.0224 *4*; α(M)=0.00524 *8*; α(N+..)=0.001627 *24*
		676.9 *6*	18 *6*	4652.9	15$^-$	M1	0.0492	α(K)=0.0404 *6*; α(L)=0.00674 *10*; α(M)=0.001574 *23*; α(N+..)=0.000488 *7*
5342.7	18$^-$	106.9 *6*	100	5235.8	17$^-$	M1	7.79 *17*	α(K)=6.35 *14*; α(L)=1.105 *24*; α(M)=0.259 *6*; α(N+..)=0.0804 *18*
5350.5	19$^-$	378.8 *6*	59 *14*	4971.7	17$^-$	E2	0.0596	α(K)=0.0381 *6*; α(L)=0.01621 *25*; α(M)=0.00411 *7*; α(N+..)=0.001245 *19*
		673.8 *6*	100 *21*	4676.7	17$^-$	E2	0.01493	α(K)=0.01131 *16*; α(L)=0.00275 *4*; α(M)=0.000669 *10*; α(N+..)=0.000205 *3*
5380.9	17$^-$	115.7 *6*	100	5265.2	16$^-$	M1	6.21 *13*	α(K)=5.06 *11*; α(L)=0.880 *18*; α(M)=0.206 *5*; α(N+..)=0.0640 *14*
5480.7	19$^-$	138.0 *4*	100	5342.7	18$^-$	M1	3.76 *7*	α(K)=3.07 *5*; α(L)=0.531 *9*; α(M)=0.1244 *21*; α(N+..)=0.0386 *7*
5493.1	20$^+$	529.0 *4*	100	4964.1	18$^+$	E2	0.0257	α(K)=0.0185 *3*; α(L)=0.00548 *8*; α(M)=0.001356 *20*; α(N+..)=0.000413 *6* Mult.: from α(exp)=0.009 *3*, A_2=0.26 *8*, A_4=−0.14 *8* R(DCO)=1.0 *2* (1986Va03);DCO=0.94 *14* (2002Si20).
5502.9	19$^+$	314.5 *2*	100 *9*	5188.4	18$^+$	M1	0.378	α(K)=0.309 *5*; α(L)=0.0527 *8*; α(M)=0.01234 *18*; α(N+..)=0.00383 *6*
		507.2 *6*	4.7 *15*	4995.7	17$^+$	E2	0.0284	α(K)=0.0202 *3*; α(L)=0.00622 *9*; α(M)=0.001545 *23*; α(N+..)=0.000471 *7*
		538.8 *6*	1.1 *3*	4964.1	18$^+$	M1	0.0894	α(K)=0.0733 *11*; α(L)=0.01232 *18*; α(M)=0.00288 *5*; α(N+..)=0.000893 *13*
5558.6	18$^-$	346.5 *6*	100 *40*	5212.1	17$^-$	M1	0.291	α(K)=0.238 *4*; α(L)=0.0405 *6*; α(M)=0.00947 *14*; α(N+..)=0.00294 *5*
		694.4 *6*	19 *5*	4864.2	16$^-$	E2	0.01400	α(K)=0.01066 *15*; α(L)=0.00254 *4*; α(M)=0.000616 *9*; α(N+..)=0.000189 *3*
5576.2	17$^-$	246.4 *6*	100 *25*	5329.8	16$^-$	M1	0.739 *12*	α(K)=0.603 *10*; α(L)=0.1034 *16*; α(M)=0.0242 *4*; α(N+..)=0.00752 *12*
		421.1 *6*	20 *7*	5155.1	16$^-$	M1	0.1720	α(K)=0.1408 *21*; α(L)=0.0238 *4*; α(M)=0.00558 *8*; α(N+..)=0.00173 *3*
5577.5	19$^+$	293.9 *4*	100 *13*	5283.6	18$^+$	M1	0.455	α(K)=0.372 *6*; α(L)=0.0635 *10*; α(M)=0.01487 *22*; α(N+..)=0.00461 *7*
		542.0 *6*	9 *3*	5035.5	17$^+$	E2	0.0243	α(K)=0.01756 *25*; α(L)=0.00509 *8*; α(M)=0.001258 *19*; α(N+..)=0.000384 *6*
		613.4 *6*	14 *4*	4964.1	18$^+$	M1	0.0636	α(K)=0.0522 *8*; α(L)=0.00874 *13*; α(M)=0.00204 *3*; α(N+..)=0.000633 *9*
5608.2	19$^-$	441.9 *6*	45 *9*	5166.3	18$^-$	M1	0.1512	α(K)=0.1238 *18*; α(L)=0.0209 *3*; α(M)=0.00490 *7*; α(N+..)=0.001519 *22*

$^{196}_{82}Pb_{114}$-16

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ [†]	I_γ [‡]	E_f	J_f^π	Mult. [#]	α [d]	Comments
5608.2	19⁻	804.4 *6*	30 *7*	4803.8	(18⁻)	M1	0.0314	α(K)=0.0258 *4*; α(L)=0.00429 *6*; α(M)=0.001001 *15*; α(N+..)=0.000311 *5*
		884.3 *4*	100 *14*	4723.9	17⁻	E2	0.00850	α(K)=0.00669 *10*; α(L)=0.001379 *20*; α(M)=0.000330 *5*; α(N+..)=0.0001015 *15*
5658.4	18⁻	277.5 *6*	100	5380.9	17⁻	M1	0.532	α(K)=0.435 *7*; α(L)=0.0744 *12*; α(M)=0.0174 *3*; α(N+..)=0.00541 *9*
5684.6	20⁻	203.9 *2*	100	5480.7	19⁻	M1	1.250	α(K)=1.021 *15*; α(L)=0.176 *3*; α(M)=0.0411 *6*; α(N+..)=0.01276 *19*
5706.0	19⁻	539.7 *6*	36 *9*	5166.3	18⁻	M1	0.0890	α(K)=0.0730 *11*; α(L)=0.01227 *18*; α(M)=0.00287 *5*; α(N+..)=0.000889 *13*
		902.2 *6*	75 *19*	4803.8	(18⁻)	(M1)	0.0234	α(K)=0.0192 *3*; α(L)=0.00318 *5*; α(M)=0.000742 *11*; α(N+..)=0.000230 *4*
		982.1 *6*	100 *25*	4723.9	17⁻	E2	0.00691	α(K)=0.00550 *8*; α(L)=0.001078 *16*; α(M)=0.000257 *4*; α(N+..)=7.90×10^{-5} *12*
5709.2	20⁺	745.1 *4*	100	4964.1	18⁺	E2	0.01206	α(K)=0.00929 *13*; α(L)=0.00211 *3*; α(M)=0.000510 *8*; α(N+..)=0.0001565 *22* Mult.: 1986Va03 suggests E1 from A_2=(−0.2), A_4=(0.0) (1986Va03).
5728.2	19⁻	1004.3 *4*	100	4723.9	17⁻	E2	0.00662	α(K)=0.00527 *8*; α(L)=0.001024 *15*; α(M)=0.000244 *4*; α(N+..)=7.50×10^{-5} *11*
5785.7	19⁻	619.4 *6*	100	5166.3	18⁻	M1+E2	0.040 *22*	α(K)=0.032 *19*; α(L)=0.006 *3*; α(M)=0.0014 *6*; α(N+..)=0.00044 *18* Mult.: E2 in table 1 of 2002Si20 may be a misprint.
5859	6⁺	4062 *2*	100	1797.51	5⁻	E1	0.00190	α(K)=0.000212 *3*; α(L)=3.07×10^{-5} *5*; α(M)=7.03×10^{-6} *10*; α(N+..)=0.001646 *23* E_γ: From 2005Wi21. Uncertainties are estimated by evaluator. Mult.: From the J^π values of known levels (2005Wi21).
5870.4	19⁻	212.0 *6*	100	5658.4	18⁻	M1	1.122 *18*	α(K)=0.916 *15*; α(L)=0.157 *3*; α(M)=0.0369 *6*; α(N+..)=0.01144 *19*
5877.5	20⁺	374.6 *2*	100 *10*	5502.9	19⁺	M1	0.235	α(K)=0.193 *3*; α(L)=0.0327 *5*; α(M)=0.00766 *11*; α(N+..)=0.00237 *4*
		689.1 *6*	11 *2*	5188.4	18⁺	E2	0.01423	α(K)=0.01082 *16*; α(L)=0.00259 *4*; α(M)=0.000629 *9*; α(N+..)=0.000193 *3*
5886.4	18⁻	310.2 *6*		5576.2	17⁻	M1	0.392	α(K)=0.321 *5*; α(L)=0.0548 *9*; α(M)=0.01282 *20*; α(N+..)=0.00398 *6* I_γ: see comment for 309.1γ.
		674.3 *6*	100	5212.1	17⁻	M1	0.0497	α(K)=0.0408 *6*; α(L)=0.00681 *10*; α(M)=0.001590 *23*; α(N+..)=0.000493 *7*
5896.0	19⁻	337.4 *6*	100 *27*	5558.6	18⁻	M1	0.312	α(K)=0.255 *4*; α(L)=0.0435 *7*; α(M)=0.01018 *15*; α(N+..)=0.00316 *5*
		683.9 *6*	29 *7*	5212.1	17⁻	E2	0.01446	α(K)=0.01098 *16*; α(L)=0.00264 *4*; α(M)=0.000642 *10*; α(N+..)=0.000197 *3*
5928.4	20⁺	435.4 *6*	100	5493.1	20⁺	M1	0.1573	α(K)=0.1288 *19*; α(L)=0.0218 *4*; α(M)=0.00510 *8*; α(N+..)=0.001581 *23*
5934.3	20⁺	356.8 *6*	100 *20*	5577.5	19⁺	M1	0.268	α(K)=0.220 *4*; α(L)=0.0373 *6*; α(M)=0.00874 *13*; α(N+..)=0.00271 *4*
		650.7 *6*	13 *5*	5283.6	18⁺	E2	0.01610	α(K)=0.01212 *18*; α(L)=0.00302 *5*; α(M)=0.000737 *11*; α(N+..)=0.000226 *4*
5952.4	21⁻	267.8 *2*	100 *12*	5684.6	20⁻	M1	0.587	α(K)=0.480 *7*; α(L)=0.0821 *12*; α(M)=0.0192 *3*; α(N+..)=0.00596 *9*
		471.7 *6*	4 *1*	5480.7	19⁻	E2	0.0339	α(K)=0.0235 *4*; α(L)=0.00781 *12*; α(M)=0.00195 *3*; α(N+..)=0.000593 *9*
5976.2	21⁻	625.7 *6*	100	5350.5	19⁻	E2	0.01755	α(K)=0.01311 *19*; α(L)=0.00337 *5*; α(M)=0.000824 *12*; α(N+..)=0.000252 *4*
6026.3	21⁻	675.8 *6*	100 *27*	5350.5	19⁻	E2	0.01484	α(K)=0.01124 *16*; α(L)=0.00273 *4*; α(M)=0.000664 *10*; α(N+..)=0.000203 *3*
		771.0 *6*	67 *20*	5255.3	19⁻	E2	0.01124	α(K)=0.00869 *13*; α(L)=0.00193 *3*; α(M)=0.000467 *7*; α(N+..)=0.0001432 *21*
6030.40	8⁺	171.4 *2*	67 *17*	5859	6⁺			
		3698 *2*	100 *67*	2333.9	(8⁻)	E1	1.78×10^{-3}	α(K)=0.000244 *4*; α(L)=3.55×10^{-5} *5*; α(M)=8.13×10^{-6} *12*; α(N+..)=0.001488 *21* E_γ: From 2005Wi21. Uncertainties are estimated by evaluator. Mult.: From the J^π values of known levels (2005Wi21).
6041.4	19⁻	155.0 *6*	100 *23*	5886.4	18⁻	M1	2.70 *5*	α(K)=2.21 *4*; α(L)=0.381 *7*; α(M)=0.0893 *16*; α(N+..)=0.0277 *5*
		383.0 *6*	100 *23*	5658.4	18⁻	M1	0.222	α(K)=0.182 *3*; α(L)=0.0308 *5*; α(M)=0.00721 *11*; α(N+..)=0.00224 *4*
6050.6	21⁺	122.2 *6*	18 *5*	5928.4	20⁺	M1	5.32 *11*	α(K)=4.33 *9*; α(L)=0.752 *15*; α(M)=0.176 *4*; α(N+..)=0.0547 *11*
		557.6 *5*	100 *20*	5493.1	20⁺	M1	0.0817	α(K)=0.0670 *10*; α(L)=0.01125 *16*; α(M)=0.00263 *4*; α(N+..)=0.000815 *12*
6075.3	20⁺	572.4 *6*	100	5502.9	19⁺	M1	0.0763	α(K)=0.0625 *9*; α(L)=0.01049 *15*; α(M)=0.00245 *4*; α(N+..)=0.000761 *11*

$^{196}_{82}Pb_{114}$-17

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
6160.1	20$^-$	264.1 *6*	100	5896.0	19$^-$	M1	0.610 *10*	α(K)=0.498 *8*; α(L)=0.0853 *14*; α(M)=0.0200 *3*; α(N+..)=0.00620 *10*
6185.1	20$^-$	143.7 *6*	100 *29*	6041.4	19$^-$	M1	3.35 *7*	α(K)=2.73 *5*; α(L)=0.473 *9*; α(M)=0.1108 *21*; α(N+..)=0.0344 *7*
		842.4 *6*	91 *24*	5342.7	18$^-$	E2	0.00937	α(K)=0.00734 *11*; α(L)=0.001551 *22*; α(M)=0.000373 *6*; α(N+..)=0.0001144 *17*
6196.5	20$^-$	326.1 *6*	100	5870.4	19$^-$	M1	0.343	α(K)=0.280 *5*; α(L)=0.0477 *8*; α(M)=0.01118 *17*; α(N+..)=0.00347 *6*
6232.8	21$^+$	355.3 *2*	100 *9*	5877.5	20$^+$	M1	0.272	α(K)=0.222 *4*; α(L)=0.0378 *6*; α(M)=0.00884 *13*; α(N+..)=0.00274 *4*
		523.6 *6*	1.3 *4*	5709.2	20$^+$	M1	0.0964	α(K)=0.0790 *12*; α(L)=0.01330 *19*; α(M)=0.00311 *5*; α(N+..)=0.000964 *14*
		729.9 *6*	15 *3*	5502.9	19$^+$	E2	0.01260	α(K)=0.00967 *14*; α(L)=0.00222 *4*; α(M)=0.000539 *8*; α(N+..)=0.0001652 *24*
6246.0	10$^+$	215.6 *2*	100	6030.40	8$^+$	(E2)	0.331	ce(N)/(γ+ce)=0.00699 *11*; ce(O)/(γ+ce)=0.001268 *19*; ce(P+)/(γ+ce)=6.59×10^{-5} *10*
6284.2	22$^-$	331.8 *2*	100 *19*	5952.4	21$^-$	M1	0.327	α(K)=0.267 *4*; α(L)=0.0455 *7*; α(M)=0.01066 *15*; α(N+..)=0.00331 *5*
		599.6 *6*	4.3 *14*	5684.6	20$^-$	E2	0.0193	α(K)=0.01428 *21*; α(L)=0.00379 *6*; α(M)=0.000931 *14*; α(N+..)=0.000285 *4*
6294.4	21$^+$	360.1 *6*	100 *30*	5934.3	20$^+$	M1	0.262	α(K)=0.214 *4*; α(L)=0.0364 *6*; α(M)=0.00852 *13*; α(N+..)=0.00264 *4*
		585.2 *6*	18 *5*	5709.2	20$^+$	M1	0.0720	α(K)=0.0590 *9*; α(L)=0.00990 *15*; α(M)=0.00231 *4*; α(N+..)=0.000717 *11*
		716.9 *6*	18 *5*	5577.5	19$^+$	E2	0.01308	α(K)=0.01001 *15*; α(L)=0.00233 *4*; α(M)=0.000565 *8*; α(N+..)=0.0001733 *25*
6334.5	22$^+$	284.0 *6*	100	6050.6	21$^+$	M1	0.500	α(K)=0.408 *7*; α(L)=0.0698 *11*; α(M)=0.01634 *25*; α(N+..)=0.00507 *8*
6349.2	21$^-$	164.1 *6*	100 *26*	6185.1	20$^-$	M1	2.30	α(K)=1.88 *4*; α(L)=0.324 *6*; α(M)=0.0760 *14*; α(N+..)=0.0236 *5*
		189.1 *6*	32 *6*	6160.1	20$^-$	M1	1.54 *3*	α(K)=1.260 *21*; α(L)=0.217 *4*; α(M)=0.0509 *9*; α(N+..)=0.0158 *3*
		664.7 *6*	16 *5*	5684.6	20$^-$	M1	0.0516	α(K)=0.0423 *6*; α(L)=0.00707 *10*; α(M)=0.001651 *24*; α(N+..)=0.000512 *8*
6360.6	22$^+$	651.5 *6*	55 *15*	5709.2	20$^+$	E2	0.01606	α(K)=0.01209 *17*; α(L)=0.00301 *5*; α(M)=0.000735 *11*; α(N+..)=0.000225 *4*
		867.6 *6*	100 *20*	5493.1	20$^+$	E2	0.00883	α(K)=0.00694 *10*; α(L)=0.001444 *21*; α(M)=0.000346 *5*; α(N+..)=0.0001064 *15*
6369.1	21$^-$	209.0 *6*	100	6160.1	20$^-$	M1	1.167 *19*	α(K)=0.953 *16*; α(L)=0.164 *3*; α(M)=0.0384 *7*; α(N+..)=0.01191 *20*
6379.3	21$^-$	593.6 *6*	21 *4*	5785.7	19$^-$	E2	0.0197	α(K)=0.01458 *21*; α(L)=0.00391 *6*; α(M)=0.000959 *14*; α(N+..)=0.000293 *5*
		673.3 *6*	25 *6*	5706.0	19$^-$	(E2)	0.01496	α(K)=0.01133 *16*; α(L)=0.00275 *4*; α(M)=0.000671 *10*; α(N+..)=0.000205 *3*
		771.1 *6*	100 *17*	5608.2	19$^-$	E2	0.01123	α(K)=0.00869 *13*; α(L)=0.00193 *3*; α(M)=0.000467 *7*; α(N+..)=0.0001431 *21*
6458.1	22$^+$	748.6 *6*	100	5709.2	20$^+$	E2	0.01195	α(K)=0.00920 *13*; α(L)=0.00208 *3*; α(M)=0.000504 *8*; α(N+..)=0.0001546 *22*
6498.7	21$^-$	302.2 *6*	100	6196.5	20$^-$	M1	0.421	α(K)=0.345 *6*; α(L)=0.0588 *9*; α(M)=0.01377 *21*; α(N+..)=0.00427 *7*
6505.4	12$^+$	259.5 *2*	100	6246.0	10$^+$	E2[&]	0.180	ce(N)/(γ+ce)=0.00369 *6*; ce(O)/(γ+ce)=0.000673 *10*; ce(P+)/(γ+ce)=3.83×10^{-5} *6*
6516.4	22$^+$	807.1 *6*	100	5709.2	20$^+$	E2	0.01023	α(K)=0.00796 *12*; α(L)=0.001723 *25*; α(M)=0.000415 *6*; α(N+..)=0.0001274 *18*
6534.4	21$^+$	459.1 *6*	100 *31*	6075.3	20$^+$	M1	0.1366	α(K)=0.1119 *17*; α(L)=0.0189 *3*; α(M)=0.00442 *7*; α(N+..)=0.001371 *20*
		656.9 *6*	48 *14*	5877.5	20$^+$	M1	0.0532	α(K)=0.0437 *7*; α(L)=0.00729 *11*; α(M)=0.001703 *25*; α(N+..)=0.000528 *8*
6557.5	22$^-$	208.3 *6*	100	6349.2	21$^-$	M1	1.178 *19*	α(K)=0.962 *16*; α(L)=0.165 *3*; α(M)=0.0387 *7*; α(N+..)=0.01202 *20*
6574.4	22$^+$	341.6 *2*	100 *10*	6232.8	21$^+$	M1	0.302	α(K)=0.247 *4*; α(L)=0.0421 *6*; α(M)=0.00984 *14*; α(N+..)=0.00305 *5*
		696.9 *6*	15 *3*	5877.5	20$^+$	E2	0.01389	α(K)=0.01058 *15*; α(L)=0.00251 *4*; α(M)=0.000610 *9*; α(N+..)=0.000187 *3*
6581.0	21$^+$	505.7 *6*	100	6075.3	20$^+$	M1	0.1057	α(K)=0.0866 *13*; α(L)=0.01459 *21*; α(M)=0.00341 *5*; α(N+..)=0.001058 *16*
6601.9	22$^-$	232.8 *6*	100	6369.1	21$^-$	M1	0.864 *14*	α(K)=0.706 *12*; α(L)=0.1211 *19*; α(M)=0.0284 *5*; α(N+..)=0.00880 *14*
6614.9	23$^+$	156.4 *6*	75 *18*	6458.1	22$^+$	M1	2.64 *5*	α(K)=2.15 *4*; α(L)=0.371 *7*; α(M)=0.0871 *16*; α(N+..)=0.0270 *5*
		254.5 *6*	100 *27*	6360.6	22$^+$	M1	0.675 *11*	α(K)=0.552 *9*; α(L)=0.0945 *15*; α(M)=0.0221 *4*; α(N+..)=0.00687 *11*
		280.5 *6*	100 *32*	6334.5	22$^+$	M1	0.517	α(K)=0.422 *7*; α(L)=0.0722 *11*; α(M)=0.0169 *3*; α(N+..)=0.00525 *8*
6645.7	20$^-$	917.5 *6*	100	5728.2	19$^-$	M1	0.0224	α(K)=0.0184 *3*; α(L)=0.00305 *5*; α(M)=0.000711 *10*; α(N+..)=0.000220 *4*
6651.2	23$^-$	367.0 *2*	100 *12*	6284.2	22$^-$	M1	0.249	α(K)=0.204 *3*; α(L)=0.0346 *5*; α(M)=0.00809 *12*; α(N+..)=0.00251 *4*
		698.8 *6*	12 *3*	5952.4	21$^-$	E2	0.01381	α(K)=0.01053 *15*; α(L)=0.00249 *4*; α(M)=0.000606 *9*; α(N+..)=0.000186 *3*
6657.8	23$^+$	297.2 *6*	86 *25*	6360.6	22$^+$	M1	0.441	α(K)=0.361 *6*; α(L)=0.0616 *10*; α(M)=0.01442 *22*; α(N+..)=0.00447 *7*
		323.2 *6*	100 *29*	6334.5	22$^+$	M1	0.351	α(K)=0.287 *5*; α(L)=0.0489 *8*; α(M)=0.01145 *17*; α(N+..)=0.00355 *6*
6690.0	22$^+$	395.6 *6*	100 *22*	6294.4	21$^+$	M1	0.203	α(K)=0.1664 *25*; α(L)=0.0282 *5*; α(M)=0.00660 *10*; α(N+..)=0.00205 *3*

$^{196}_{82}Pb_{114}$-18

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
6690.0	22^+	755.7 *6*	17 *6*	5934.3	20^+	E2	0.01171	α(K)=0.00904 *13*; α(L)=0.00203 *3*; α(M)=0.000492 *7*; α(N+..)=0.0001508 *22*
6693.1	24^+	332.5 *6*	88 *27*	6360.6	22^+	E2	0.0857 *13*	α(K)=0.0512 *8*; α(L)=0.0258 *4*; α(M)=0.00660 *11*; α(N+..)=0.00200 *3*
		358.5 *6*	100 *31*	6334.5	22^+	E2	0.0693	α(K)=0.0431 *7*; α(L)=0.0197 *3*; α(M)=0.00500 *8*; α(N+..)=0.001516 *24*
6725.4	23^-	699.1 *6*	100 *20*	6026.3	21^-	E2	0.01380	α(K)=0.01052 *15*; α(L)=0.00249 *4*; α(M)=0.000605 *9*; α(N+..)=0.000185 *3*
		749.2 *6*	100 *30*	5976.2	21^-	E2	0.01193	α(K)=0.00919 *13*; α(L)=0.00208 *3*; α(M)=0.000503 *8*; α(N+..)=0.0001543 *22*
6780.4	22^+	199.4 *6*	72 *18*	6581.0	21^+	M1	1.331 *22*	α(K)=1.087 *18*; α(L)=0.187 *3*; α(M)=0.0438 *8*; α(N+..)=0.01359 *23*
		246.0 *6*	100 *27*	6534.4	21^+	M1	0.742 *12*	α(K)=0.606 *10*; α(L)=0.1039 *17*; α(M)=0.0243 *4*; α(N+..)=0.00755 *12*
		547.6 *6*	89 *30*	6232.8	21^+	M1	0.0857	α(K)=0.0703 *10*; α(L)=0.01180 *17*; α(M)=0.00276 *4*; α(N+..)=0.000856 *13*
		903.0 *6*	62 *14*	5877.5	20^+	E2	0.00816	α(K)=0.00643 *9*; α(L)=0.001312 *19*; α(M)=0.000314 *5*; α(N+..)=9.65×10^{-5} *14*
6807.7	23^-	250.2 *4*	100	6557.5	22^-	M1	0.708	α(K)=0.578 *9*; α(L)=0.0991 *15*; α(M)=0.0232 *4*; α(N+..)=0.00720 *11*
6808.4	14^+	303.0 *2*	100	6505.4	12^+	(E2)	0.1123	ce(N)/(γ+ce)=0.00213 *3*; ce(O)/(γ+ce)=0.000392 *6*; ce(P+)/(γ+ce)=2.41×10^{-5} *4*
6818.0	23^+	243.6 *2*	100 *11*	6574.4	22^+	M1	0.762	α(K)=0.623 *9*; α(L)=0.1068 *16*; α(M)=0.0250 *4*; α(N+..)=0.00776 *11*
		585.2 *6*	7 *2*	6232.8	21^+	E2	0.0204	α(K)=0.01500 *22*; α(L)=0.00407 *6*; α(M)=0.001000 *15*; α(N+..)=0.000306 *5*
6846.1	(8^-)	815[bf]	100	6030.40	8^+			
6857.7	22^-	359.0 *6*	100	6498.7	21^-	M1	0.264	α(K)=0.216 *4*; α(L)=0.0367 *6*; α(M)=0.00860 *13*; α(N+..)=0.00267 *4*
6865.9		1137.7 *6*	100	5728.2	19^-			
6881.1	23^-	279.2 *6*	100	6601.9	22^-	M1	0.523	α(K)=0.428 *7*; α(L)=0.0732 *12*; α(M)=0.0171 *3*; α(N+..)=0.00531 *8*
6944.8	(9^-)	98[bf]	100	6846.1	(8^-)			
7027.8	24^+	209.8 *4*	100 *13*	6818.0	23^+	M1	1.155	α(K)=0.943 *15*; α(L)=0.1620 *25*; α(M)=0.0380 *6*; α(N+..)=0.01178 *18*
		453.4 *6*	3.4 *14*	6574.4	22^+	E2	0.0374	α(K)=0.0256 *4*; α(L)=0.00886 *13*; α(M)=0.00222 *4*; α(N+..)=0.000675 *10*
7042.1	23^+	261.7 *6*	100 *20*	6780.4	22^+	M1	0.625 *10*	α(K)=0.511 *8*; α(L)=0.0875 *14*; α(M)=0.0205 *4*; α(N+..)=0.00636 *10*
		467.7 *6*	53 *20*	6574.4	22^+	M1	0.1300	α(K)=0.1065 *16*; α(L)=0.0180 *3*; α(M)=0.00420 *6*; α(N+..)=0.001304 *19*
		809.3 *6*	52 *11*	6232.8	21^+	E2	0.01017	α(K)=0.00792 *12*; α(L)=0.001712 *25*; α(M)=0.000412 *6*; α(N+..)=0.0001265 *18*
7043.4	24^-	392.2 *2*	100 *13*	6651.2	23^-	M1	0.208	α(K)=0.1703 *24*; α(L)=0.0289 *4*; α(M)=0.00676 *10*; α(N+..)=0.00210 *3*
		759.2 *6*	16 *4*	6284.2	22^-	E2	0.01160	α(K)=0.00896 *13*; α(L)=0.00201 *3*; α(M)=0.000486 *7*; α(N+..)=0.0001490 *21*
7050.6	(10^-)	107[bf]		6944.8	(9^-)			
		204.5		6846.1	(8^-)			
		805[bf]		6246.0	10^+			
7074.7	23^+	384.7 *6*	100 *20*	6690.0	22^+	M1	0.219	α(K)=0.179 *3*; α(L)=0.0304 *5*; α(M)=0.00712 *11*; α(N+..)=0.00221 *4*
		780.3 *6*	23 *7*	6294.4	21^+	E2	0.01096	α(K)=0.00849 *12*; α(L)=0.00188 *3*; α(M)=0.000452 *7*; α(N+..)=0.0001388 *20*
7116.8	24^-	309.1 *6*	100	6807.7	23^-	M1	0.396	α(K)=0.324 *5*; α(L)=0.0553 *9*; α(M)=0.01294 *20*; α(N+..)=0.00402 *6* I_γ: for 309.1+310.2; but 310.2 is stated as weak by 2002Si20.
7154.2	16^+	345.8 *2*	100	6808.4	14^+	E2[&]	0.0767	ce(N)/(γ+ce)=0.001340 *19*; ce(O)/(γ+ce)=0.000248 *4*
7171.9	23^-	792.6 *6*	100	6379.3	21^-	E2	0.01061	α(K)=0.00824 *12*; α(L)=0.00180 *3*; α(M)=0.000435 *7*; α(N+..)=0.0001334 *19*
7172.1	(11^-)	120[bf]		7050.6	(10^-)			
		226.7		6944.8	(9^-)			
7174.7	24^+	658.3 *6*	25 *8*	6516.4	22^+	E2	0.01570	α(K)=0.01184 *17*; α(L)=0.00293 *5*; α(M)=0.000714 *11*; α(N+..)=0.000219 *4*
		716.8 *6*	97 *24*	6458.1	22^+	E2	0.01309	α(K)=0.01001 *15*; α(L)=0.00233 *4*; α(M)=0.000566 *8*; α(N+..)=0.0001734 *25*
		813.9 *6*	100 *29*	6360.6	22^+	E2	0.01005	α(K)=0.00783 *11*; α(L)=0.001688 *24*; α(M)=0.000406 *6*; α(N+..)=0.0001247 *18*
7211.5	24^-	330.4 *6*	100	6881.1	23^-	M1	0.331	α(K)=0.270 *4*; α(L)=0.0461 *7*; α(M)=0.01078 *16*; α(N+..)=0.00334 *5*
7213.3	23^-	355.6 *6*	100	6857.7	22^-	M1	0.271	α(K)=0.222 *4*; α(L)=0.0377 *6*; α(M)=0.00882 *13*; α(N+..)=0.00274 *4*
7246.1	23^-	866.8 *6*	100	6379.3	21^-	E2	0.00885	α(K)=0.00695 *10*; α(L)=0.001447 *21*; α(M)=0.000347 *5*; α(N+..)=0.0001066 *15*

$^{196}_{82}Pb_{114}$-19

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
7254.6		388.7 *6*	64 *21*	6865.9				
		608.9 *6*	100 *26*	6645.7	20^-			
7267.2	25^+	239.4 *4*	100	7027.8	24^+	M1	0.800	α(K)=0.653 *10*; α(L)=0.1121 *17*; α(M)=0.0263 *4*; α(N+..)=0.00814 *12*
		449.2 *6*		6818.0	23^+	E2	0.0383	α(K)=0.0261 *4*; α(L)=0.00913 *14*; α(M)=0.00229 *4*; α(N+..)=0.000696 *11*
7298.5	(12^-)	128[bf]		7172.1	(11^-)			
		247.9		7050.6	(10^-)			
		794[bf]		6505.4	12^+			
7302.2	22^-	922.9 *6*	100	6379.3	21^-	M1	0.0221	α(K)=0.0181 *3*; α(L)=0.00300 *5*; α(M)=0.000700 *10*; α(N+..)=0.000217 *3*
7337.0	24^+	294.9 *6*	100	7042.1	23^+	M1	0.451	α(K)=0.368 *6*; α(L)=0.0629 *10*; α(M)=0.01473 *23*; α(N+..)=0.00457 *7*
7440.5	(13^-)	140[bf]		7298.5	(12^-)			
		267.7		7172.1	(11^-)			
		935[b]		6505.4	12^+	(E1)[&]	0.00283	α(K)=0.00236 *4*; α(L)=0.000361 *5*; α(M)=8.33×10^{-5} *12*; α(N+..)=2.57×10^{-5} *4* B(E1)=1.0 × 10^{-4} 2 (2001Hu18,2001Ro20).
7441.1	25^-	397.7 *2*	100 *13*	7043.4	24^-	M1	0.200	α(K)=0.1641 *23*; α(L)=0.0278 *4*; α(M)=0.00651 *10*; α(N+..)=0.00202 *3*
		789.9 *6*	20 *6*	6651.2	23^-	E2	0.01069	α(K)=0.00830 *12*; α(L)=0.00182 *3*; α(M)=0.000438 *7*; α(N+..)=0.0001346 *19*
7465.3	24^+	390.6 *6*	100 *22*	7074.7	23^+	M1	0.210	α(K)=0.172 *3*; α(L)=0.0292 *5*; α(M)=0.00683 *10*; α(N+..)=0.00212 *3*
		775.3 *6*	22 *8*	6690.0	22^+	E2	0.01111	α(K)=0.00860 *13*; α(L)=0.00191 *3*; α(M)=0.000460 *7*; α(N+..)=0.0001412 *20*
7491.9	25^-	375.1 *6*	100	7116.8	24^-	M1	0.235	α(K)=0.192 *3*; α(L)=0.0326 *5*; α(M)=0.00763 *12*; α(N+..)=0.00237 *4* I_γ: for 374.8+375.1.
7507.9	22^-	862.2 *6*	100	6645.7	20^-	E2	0.00895	α(K)=0.00702 *10*; α(L)=0.001466 *21*; α(M)=0.000352 *5*; α(N+..)=0.0001080 *16*
7541.8	18^+	387.6[a] *2*	100	7154.2	16^+	(E2)[@]	0.0561	ce(N)/(γ+ce)=0.000907 *13*; ce(O)/(γ+ce)=0.0001689 *24*
7553.3	26^+	286.1 *4*	100	7267.2	25^+	M1	0.490	α(K)=0.400 *6*; α(L)=0.0684 *10*; α(M)=0.01602 *24*; α(N+..)=0.00497 *8*
		525.5 *6*		7027.8	24^+	E2	0.0261	α(K)=0.0187 *3*; α(L)=0.00559 *8*; α(M)=0.001384 *20*; α(N+..)=0.000422 *6*
7563.8	25^-	352.3 *6*	100	7211.5	24^-	M1	0.278	α(K)=0.227 *4*; α(L)=0.0387 *6*; α(M)=0.00905 *14*; α(N+..)=0.00281 *5*
7564.6	24^-	392.7 *6*	100	7171.9	23^-	M1	0.207	α(K)=0.1697 *25*; α(L)=0.0288 *5*; α(M)=0.00674 *10*; α(N+..)=0.00209 *3*
7587.9	(14^-)	289.4	100	7298.5	(12^-)			
7588.2	25^+	895.1 *6*	100	6693.1	24^+	M1[@]	0.0239	α(K)=0.0196 *3*; α(L)=0.00325 *5*; α(M)=0.000758 *11*; α(N+..)=0.000235 *4*
7593.0	24^-	379.7 *6*	<100	7213.3	23^-	M1	0.227	α(K)=0.186 *3*; α(L)=0.0315 *5*; α(M)=0.00738 *11*; α(N+..)=0.00229 *4*
7634.9	25^+	297.9 *6*	100	7337.0	24^+	M1	0.438	α(K)=0.358 *6*; α(L)=0.0612 *10*; α(M)=0.01433 *22*; α(N+..)=0.00444 *7*
7749.5	(15^-)	308.3		7440.5	(13^-)			
		941[b]		6808.4	14^+	(E1)[&]	0.00279	α(K)=0.00233 *4*; α(L)=0.000357 *5*; α(M)=8.23×10^{-5} *12*; α(N+..)=2.54×10^{-5} *4* B(E1)=1.0 × 10^{-4} 2 (2001Hu18,2001Ro20).
7825.9	25^+	360.6 *6*	100 *30*	7465.3	24^+	M1	0.261	α(K)=0.213 *4*; α(L)=0.0363 *6*; α(M)=0.00849 *13*; α(N+..)=0.00263 *4* I_γ: for 360.1+360.6.
		751.2 *6*	4 *2*	7074.7	23^+	E2	0.01186	α(K)=0.00914 *13*; α(L)=0.00207 *3*; α(M)=0.000500 *7*; α(N+..)=0.0001532 *22*
7849.3	26^-	408.3 *4*	100 *13*	7441.1	25^-	M1	0.187	α(K)=0.1529 *22*; α(L)=0.0259 *4*; α(M)=0.00606 *9*; α(N+..)=0.00188 *3*
		805.8 *6*	23 *6*	7043.4	24^-	E2	0.01026	α(K)=0.00799 *12*; α(L)=0.001730 *25*; α(M)=0.000417 *6*; α(N+..)=0.0001279 *18*
7892.0	27^+	338.7 *4*	100 *15*	7553.3	26^+	M1	0.309	α(K)=0.253 *4*; α(L)=0.0430 *7*; α(M)=0.01007 *15*; α(N+..)=0.00313 *5*
		624.8 *6*	7 *2*	7267.2	25^+	E2	0.01760	α(K)=0.01314 *19*; α(L)=0.00338 *5*; α(M)=0.000827 *12*; α(N+..)=0.000253 *4*
7896.4	26^-	404.4 *6*	100	7491.9	25^-	M1	0.192	α(K)=0.1569 *23*; α(L)=0.0266 *4*; α(M)=0.00622 *9*; α(N+..)=0.00193 *3*
7912.3	26^+	277.4 *6*	100 *23*	7634.9	25^+	M1	0.533	α(K)=0.436 *7*; α(L)=0.0745 *12*; α(M)=0.0174 *3*; α(N+..)=0.00541 *9*

$^{196}_{82}Pb_{114}$-20

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
7912.3	26^+	645.1 *6*	30 *13*	7267.2	25^+	M1	0.0558	α(K)=0.0458 *7*; α(L)=0.00765 *11*; α(M)=0.00179 *3*; α(N+..)=0.000554 *8*
7917.6	(16^-)	329.7	100	7587.9	(14^-)			
7940.3	26^-	376.5 *6*	100	7563.8	25^-	M1	0.232	α(K)=0.190 *3*; α(L)=0.0323 *5*; α(M)=0.00755 *11*; α(N+..)=0.00234 *4*
7940.8	26^-	448.9 *6*	100	7491.9	25^-	M1	0.1450	α(K)=0.1188 *18*; α(L)=0.0201 *3*; α(M)=0.00469 *7*; α(N+..)=0.001456 *21*
7970.3	20^+	428.5[a] *2*	100	7541.8	18^+	(E2)	0.0431	ce(N)/(γ+ce)=0.000650 *10*; ce(O)/(γ+ce)=0.0001217 *18*
7977.8	26^+	342.9 *6*	100	7634.9	25^+	M1	0.299	α(K)=0.245 *4*; α(L)=0.0416 *7*; α(M)=0.00974 *15*; α(N+..)=0.00302 *5*
8025.8	26^+	851.1 *6*	100	7174.7	24^+	E2	0.00918	α(K)=0.00720 *11*; α(L)=0.001513 *22*; α(M)=0.000363 *6*; α(N+..)=0.0001115 *16*
8098.8	(17^-)	348.4		7749.5	(15^-)			
		945[b]		7154.2	16^+	(E1)[&]	0.00277	α(K)=0.00231 *4*; α(L)=0.000354 *5*; α(M)=8.16×10^{-5} *12*; α(N+..)=2.52×10^{-5} *4* B(E1)=1.0 × 10^{-4} 2 (2001Hu18,2001Ro20).
8144.4	(17^-)	990[b]		7154.2	16^+			
8166.6	26^+	340.7 *6*	100	7825.9	25^+	M1	0.304	α(K)=0.249 *4*; α(L)=0.0424 *7*; α(M)=0.00991 *15*; α(N+..)=0.00308 *5*
8201.3	27^+	289.0 *6*	100 *22*	7912.3	26^+	M1	0.476	α(K)=0.389 *6*; α(L)=0.0665 *10*; α(M)=0.01558 *24*; α(N+..)=0.00483 *8*
		648.0 *6*	20 *8*	7553.3	26^+	M1	0.0551	α(K)=0.0452 *7*; α(L)=0.00756 *11*; α(M)=0.00177 *3*; α(N+..)=0.000548 *8* I_γ: for 648.0+648.6+650.4.
8222.7	27^-	326.3 *6*	18 *6*	7896.4	26^-	M1	0.342	α(K)=0.280 *5*; α(L)=0.0477 *7*; α(M)=0.01116 *17*; α(N+..)=0.00346 *6*
		373.4 *4*	100 *16*	7849.3	26^-	M1	0.237	α(K)=0.194 *3*; α(L)=0.0330 *5*; α(M)=0.00772 *11*; α(N+..)=0.00240 *4*
		781.5 *6*	13 *4*	7441.1	25^-	E2	0.01093	α(K)=0.00847 *12*; α(L)=0.00187 *3*; α(M)=0.000451 *7*; α(N+..)=0.0001383 *20*
8271.1	27^-	374.8 *6*	100 *20*	7896.4	26^-	M1	0.235	α(K)=0.192 *3*; α(L)=0.0327 *5*; α(M)=0.00764 *12*; α(N+..)=0.00237 *4* I_γ: for 374.8+375.1.
		421.9 *6*	56 *13*	7849.3	26^-	M1	0.1711	α(K)=0.1401 *21*; α(L)=0.0237 *4*; α(M)=0.00555 *8*; α(N+..)=0.001721 *25*
		830.0 *6*	12 *3*	7441.1	25^-	E2	0.00966	α(K)=0.00755 *11*; α(L)=0.001608 *23*; α(M)=0.000387 *6*; α(N+..)=0.0001187 *17*
8287.1	(18^-)	369.5	100	7917.6	(16^-)			
8289.7	28^+	397.7 *4*	100 *14*	7892.0	27^+	M1	0.200	α(K)=0.1641 *24*; α(L)=0.0278 *4*; α(M)=0.00651 *10*; α(N+..)=0.00202 *3* Branching=0.89 *2* (2002Si29).
		736.4 *6*	13 *3*	7553.3	26^+	E2	0.01236	α(K)=0.00950 *14*; α(L)=0.00217 *3*; α(M)=0.000526 *8*; α(N+..)=0.0001614 *23*
8357.2	27^+	379.4 *6*	100	7977.8	26^+	M1	0.227	α(K)=0.186 *3*; α(L)=0.0316 *5*; α(M)=0.00740 *11*; α(N+..)=0.00229 *4*
8382.9	27^-	442.6 *6*	100	7940.3	26^-	M1	0.1506	α(K)=0.1233 *18*; α(L)=0.0209 *3*; α(M)=0.00488 *7*; α(N+..)=0.001513 *22*
8383.5	27^-	442.7 *6*	100 *31*	7940.8	26^-	M1	0.1505	α(K)=0.1232 *18*; α(L)=0.0208 *3*; α(M)=0.00487 *7*; α(N+..)=0.001512 *22*
		487.1 *6*	62 *23*	7896.4	26^-	M1	0.1167	α(K)=0.0956 *14*; α(L)=0.01613 *24*; α(M)=0.00377 *6*; α(N+..)=0.001169 *17*
8439.7	22^+	469.4[a] *2*	100	7970.3	20^+	E2[&]	0.0343	ce(N)/(γ+ce)=0.000484 *7*; ce(O)/(γ+ce)=9.12×10^{-5} *13*
8487.4	(19^-)	388.2		8098.8	(17^-)			
		946[b]		7541.8	18^+	(E1)[&]	0.00277	α(K)=0.00231 *4*; α(L)=0.000353 *5*; α(M)=8.15×10^{-5} *12*; α(N+..)=2.51×10^{-5} *4* B(E1)=1.0 × 10^{-4} 2 (2001Hu18,2001Ro20).
8517.0	27^+	350.4 *6*	100	8166.6	26^+	M1	0.282	α(K)=0.231 *4*; α(L)=0.0392 *6*; α(M)=0.00918 *14*; α(N+..)=0.00285 *5*
8540.6	28^+	339.3 *6*	100 *25*	8201.3	27^+	M1	0.308	α(K)=0.252 *4*; α(L)=0.0428 *7*; α(M)=0.01003 *15*; α(N+..)=0.00311 *5*
		648.6 *6*	23 *9*	7892.0	27^+	M1	0.0550	α(K)=0.0451 *7*; α(L)=0.00754 *11*; α(M)=0.00176 *3*; α(N+..)=0.000546 *8* I_γ: for 648.6+648.0+650.4.
8549.6	(19^-)	405[b]		8144.4	(17^-)			
		1008[b]		7541.8	18^+			
8556.2	28^-	333.5 *6*	100 *16*	8222.7	27^-	M1	0.322	α(K)=0.264 *4*; α(L)=0.0449 *7*; α(M)=0.01051 *16*; α(N+..)=0.00326 *5*
		706.9 *6*	9 *2*	7849.3	26^-	E2	0.01348	α(K)=0.01029 *15*; α(L)=0.00242 *4*; α(M)=0.000587 *9*; α(N+..)=0.000180 *3*

$^{196}_{82}Pb_{114}$-21

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
8666.2	28⁻	395.0 *6*	100 *29*	8271.1	27⁻	M1	0.204	α(K)=0.1671 *25*; α(L)=0.0283 *5*; α(M)=0.00663 *10*; α(N+..)=0.00206 *3*
		816.9 *6*	25 *8*	7849.3	26⁻	E2	0.00998	α(K)=0.00778 *11*; α(L)=0.001673 *24*; α(M)=0.000402 *6*; α(N+..)=0.0001236 *18*
8696	(20⁻)	409.4	100	8287.1	(18⁻)			
8738.4	29⁺	448.7 *6*	100 *21*	8289.7	28⁺	M1	0.1452	α(K)=0.1189 *18*; α(L)=0.0201 *3*; α(M)=0.00470 *7*; α(N+..)=0.001458 *21*
		846.4 *6*	20 *5*	7892.0	27⁺	E2	0.00929	α(K)=0.00727 *11*; α(L)=0.001533 *22*; α(M)=0.000368 *6*; α(N+..)=0.0001131 *16*
8769.5	28⁺	412.3 *6*	100	8357.2	27⁺	M1	0.182	α(K)=0.1490 *22*; α(L)=0.0252 *4*; α(M)=0.00590 *9*; α(N+..)=0.00183 *3*
8850.6	28⁻	467.7 *6*	<100	8382.9	27⁻	M1	0.1300	α(K)=0.1065 *16*; α(L)=0.0180 *3*; α(M)=0.00420 *6*; α(N+..)=0.001304 *19*
8883.0	28⁻	499.5 *6*	100	8383.5	27⁻	M1	0.1092	α(K)=0.0895 *13*; α(L)=0.01508 *22*; α(M)=0.00352 *5*; α(N+..)=0.001093 *16*
8892.7	29⁻	336.5 *6*	100 *22*	8556.2	28⁻	M1	0.315	α(K)=0.257 *4*; α(L)=0.0438 *7*; α(M)=0.01026 *16*; α(N+..)=0.00318 *5*
		670.0 *6*	9 *4*	8222.7	27⁻	E2	0.01511	α(K)=0.01144 *17*; α(L)=0.00279 *4*; α(M)=0.000680 *10*; α(N+..)=0.000208 *3*
8915.0	(21⁻)	427.6		8487.4	(19⁻)			
		945[b]		7970.3	20⁺	(E1)[&]	0.00277	α(K)=0.00231 *4*; α(L)=0.000354 *5*; α(M)=8.16×10^{-5} *12*; α(N+..)=2.52×10^{-5} *4* B(E1)=1.0 × 10^{-4} 2 (2001Hu18,2001Ro20).
8937.7		911.9 *6*	<100	8025.8	26⁺			
8940.1	29⁺	399.5 *6*	100 *25*	8540.6	28⁺	M1	0.198	α(K)=0.1621 *24*; α(L)=0.0275 *4*; α(M)=0.00643 *10*; α(N+..)=0.00199 *3*
		650.4 *6*	30 *13*	8289.7	28⁺	M1	0.0546	α(K)=0.0448 *7*; α(L)=0.00749 *11*; α(M)=0.001749 *25*; α(N+..)=0.000542 *8* I_γ: for 650.4+648.0+648.6.
8948.2	24⁺	508.5[a] *2*	100	8439.7	22⁺	(E2)	0.0282	ce(N)/(γ+ce)=0.000377 *6*; ce(O)/(γ+ce)=7.14×10^{-5} *10*
8991.6	(21⁻)	442[b]		8549.6	(19⁻)			
		1021[b f]		7970.3	20⁺			
9070.3	29⁻	404.1 *6*	100 *29*	8666.2	28⁻	M1	0.192	α(K)=0.1572 *23*; α(L)=0.0266 *4*; α(M)=0.00623 *9*; α(N+..)=0.00193 *3*
		799.1 *6*	18 *6*	8271.1	27⁻	E2	0.01044	α(K)=0.00811 *12*; α(L)=0.001767 *25*; α(M)=0.000426 *6*; α(N+..)=0.0001306 *19*
9144	(22⁻)	447.8	100	8696	(20⁻)			
9202.0	29⁺	432.5 *6*	100	8769.5	28⁺	M1	0.1601	α(K)=0.1311 *19*; α(L)=0.0222 *4*; α(M)=0.00519 *8*; α(N+..)=0.001610 *24*
9228.6	30⁺	490.2 *6*	100 *23*	8738.4	29⁺	M1	0.1148	α(K)=0.0941 *14*; α(L)=0.01586 *23*; α(M)=0.00371 *6*; α(N+..)=0.001150 *17*
		938.9 *6*	20 *6*	8289.7	28⁺	E2	0.00755	α(K)=0.00598 *9*; α(L)=0.001197 *17*; α(M)=0.000286 *4*; α(N+..)=8.79×10^{-5} *13*
9251.2	30⁻	358.5 *6*	100 *22*	8892.7	29⁻	M1	0.265	α(K)=0.217 *4*; α(L)=0.0369 *6*; α(M)=0.00863 *13*; α(N+..)=0.00268 *4*
		695.0 *6*	15 *6*	8556.2	28⁻	E2	0.01397	α(K)=0.01064 *15*; α(L)=0.00253 *4*; α(M)=0.000615 *9*; α(N+..)=0.000188 *3*
9374.3	29⁻	523.7 *6*	<100	8850.6	28⁻	M1	0.0964	α(K)=0.0790 *12*; α(L)=0.01329 *19*; α(M)=0.00311 *5*; α(N+..)=0.000964 *14*
9380.9	(23⁻)	466.2		8915.0	(21⁻)			
		941[b]	100	8439.7	22⁺	(E1)[&]	0.00279	α(K)=0.00233 *4*; α(L)=0.000357 *5*; α(M)=8.23×10^{-5} *12*; α(N+..)=2.54×10^{-5} *4*
9404.2	30⁺	464.1 *6*	100 *22*	8940.1	29⁺	M1	0.1327	α(K)=0.1087 *16*; α(L)=0.0184 *3*; α(M)=0.00429 *7*; α(N+..)=0.001331 *20*
		665.8 *6*	21 *6*	8738.4	29⁺	M1	0.0513	α(K)=0.0422 *6*; α(L)=0.00704 *10*; α(M)=0.001644 *24*; α(N+..)=0.000510 *8*
9471.6	(23⁻)	480[b]	100	8991.6	(21⁻)			
9495.1	26⁺	546.9[a] *2*	100	8948.2	24⁺	(E2)	0.0238	ce(N)/(γ+ce)=0.000303 *5*; ce(O)/(γ+ce)=5.75×10^{-5} *8*
9498.3	30⁻	428.0 *6*	100	9070.3	29⁻	M1	0.1647	α(K)=0.1348 *20*; α(L)=0.0228 *4*; α(M)=0.00534 *8*; α(N+..)=0.001656 *24*
9630	(24⁻)	485.3	100	9144	(22⁻)			
9645.7	30⁺	443.7 *6*	100	9202.0	29⁺	M1	0.1496	α(K)=0.1225 *18*; α(L)=0.0207 *3*; α(M)=0.00484 *7*; α(N+..)=0.001502 *22*
9646.7	31⁻	395.5 *6*	100 *24*	9251.2	30⁻	M1	0.203	α(K)=0.1665 *25*; α(L)=0.0282 *5*; α(M)=0.00661 *10*; α(N+..)=0.00205 *3*
		754.0 *6*	20 *7*	8892.7	29⁻	E2	0.01177	α(K)=0.00908 *13*; α(L)=0.00205 *3*; α(M)=0.000495 *7*; α(N+..)=0.0001517 *22*
9755.0	31⁺	526.4 *5*	100 *18*	9228.6	30⁺	M1	0.0951	α(K)=0.0779 *11*; α(L)=0.01311 *19*; α(M)=0.00306 *5*; α(N+..)=0.000950 *14*
		1016.6 *6*	24 *9*	8738.4	29⁺	E2	0.00646	α(K)=0.00515 *8*; α(L)=0.000996 *14*; α(M)=0.000237 *4*; α(N+..)=7.30×10^{-5} *11*

$^{196}_{82}Pb_{114}$-22

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ [†]	I_γ [‡]	E_f	J_f^π	Mult. [#]	α [d]	Comments
9884.0	(25$^-$)	503.1	100	9380.9	(23$^-$)			
9917.4	31$^+$	513.2 *6*	100	9404.2	30$^+$	M1	0.1017	α(K)=0.0833 *12*; α(L)=0.01403 *21*; α(M)=0.00328 *5*; α(N+..)=0.001017 *15*
9950.9	31$^-$	452.6 *6*	100 *34*	9498.3	30$^-$	M1	0.1419	α(K)=0.1162 *17*; α(L)=0.0196 *3*; α(M)=0.00459 *7*; α(N+..)=0.001424 *21*
		880.6 *6*	29 *14*	9070.3	29$^-$	E2	0.00857	α(K)=0.00675 *10*; α(L)=0.001393 *20*; α(M)=0.000334 *5*; α(N+..)=0.0001026 *15*
9990.6	(25$^-$)	519 [b]	100	9471.6	(23$^-$)			
10079.3	28$^+$	584.2 [a] *2*	100	9495.1	26$^+$	(E2)	0.0205	ce(N)/(γ+ce)=0.000249 *4*; ce(O)/(γ+ce)=4.76×10^{-5} *7*
10088.8	32$^-$	442.1 *6*	100 *26*	9646.7	31$^-$	M1	0.1510	α(K)=0.1237 *18*; α(L)=0.0209 *3*; α(M)=0.00489 *7*; α(N+..)=0.001517 *22*
		837.6 *6*	30 *15*	9251.2	30$^-$	E2	0.00948	α(K)=0.00742 *11*; α(L)=0.001573 *23*; α(M)=0.000378 *6*; α(N+..)=0.0001161 *17*
10099.7	31$^+$	454.0 *6*	100	9645.7	30$^+$	M1	0.1407	α(K)=0.1153 *17*; α(L)=0.0195 *3*; α(M)=0.00455 *7*; α(N+..)=0.001412 *21*
10152	(26$^-$)	522.6	100	9630	(24$^-$)			
10310.9	32$^+$	555.9 *6*	100 *34*	9755.0	31$^+$	M1	0.0823	α(K)=0.0675 *10*; α(L)=0.01134 *17*; α(M)=0.00265 *4*; α(N+..)=0.000822 *12*
		1082.3 *6*	38 *17*	9228.6	30$^+$	E2	0.00572	α(K)=0.00459 *7*; α(L)=0.000866 *13*; α(M)=0.000205 *3*; α(N+..)=6.32×10^{-5} *9*
10424.2	(27$^-$)	540.2	100	9884.0	(25$^-$)			
10438.5	32$^-$	487.6 *6*	100	9950.9	31$^-$	M1	0.1164	α(K)=0.0954 *14*; α(L)=0.01608 *24*; α(M)=0.00376 *6*; α(N+..)=0.001166 *17*
10462.0	32$^+$	544.6 *6*	100	9917.4	31$^+$	M1	0.0869	α(K)=0.0713 *11*; α(L)=0.01198 *18*; α(M)=0.00280 *4*; α(N+..)=0.000868 *13*
10547.6	(27$^-$)	557 [b]	100	9990.6	(25$^-$)			
10568.3	32$^+$	468.6 *6*	100	10099.7	31$^+$	M1	0.1293	α(K)=0.1060 *16*; α(L)=0.0179 *3*; α(M)=0.00418 *6*; α(N+..)=0.001297 *19*
10578.2	33$^-$	489.4 *6*	100	10088.8	32$^-$	M1	0.1153	α(K)=0.0945 *14*; α(L)=0.01593 *23*; α(M)=0.00372 *6*; α(N+..)=0.001155 *17*
10699.9	30$^+$	620.6 [a] *2*	100	10079.3	28$^+$	(E2)	0.0179	ce(N)/(γ+ce)=0.000210 *3*; ce(O)/(γ+ce)=4.01×10^{-5} *6*
10710	(28$^-$)	558.2	100	10152	(26$^-$)			
10884.0	33$^+$	573.1 *6*	100 *35*	10310.9	32$^+$	M1	0.0760	α(K)=0.0623 *9*; α(L)=0.01046 *15*; α(M)=0.00244 *4*; α(N+..)=0.000758 *11*
		1129.0 *6*	33 *14*	9755.0	31$^+$	E2	0.00528	α(K)=0.00425 *6*; α(L)=0.000788 *11*; α(M)=0.000187 *3*; α(N+..)=5.80×10^{-5} *9*
10956.1	33$^-$	517.6 *6*	100	10438.5	32$^-$	M1	0.0994	α(K)=0.0815 *12*; α(L)=0.01371 *20*; α(M)=0.00320 *5*; α(N+..)=0.000994 *15*
11000.0	(29$^-$)	575.8	100	10424.2	(27$^-$)			
11028.2	33$^{(+)}$	566.2 *6*	100	10462.0	32$^+$	M1	0.0785	α(K)=0.0644 *10*; α(L)=0.01080 *16*; α(M)=0.00252 *4*; α(N+..)=0.000783 *12*
11059.7	33$^+$	491.4 *6*	100	10568.3	32$^+$	M1	0.1140	α(K)=0.0935 *14*; α(L)=0.01575 *23*; α(M)=0.00368 *6*; α(N+..)=0.001142 *17*
11111.7	34$^-$	533.5 *6*	100	10578.2	33$^-$	M1	0.0918	α(K)=0.0752 *11*; α(L)=0.01265 *19*; α(M)=0.00296 *5*; α(N+..)=0.000917 *14*
11304	(30$^-$)	594.1	100	10710	(28$^-$)			
11354.8	32$^+$	654.9 [a] *3*	100	10699.9	30$^+$			
11456.6	34$^+$	572.6 *6*	100 *35*	10884.0	33$^+$	M1	0.0762	α(K)=0.0625 *9*; α(L)=0.01048 *15*; α(M)=0.00245 *4*; α(N+..)=0.000760 *11*
		1145.7 *6*	<20	10310.9	32$^+$	E2	0.00513	α(K)=0.00413 *6*; α(L)=0.000763 *11*; α(M)=0.000181 *3*; α(N+..)=5.65×10^{-5} *8*
11585.5?	34$^+$	526.2 [f] *6*	<100	11059.7	33$^+$	M1	0.0952	α(K)=0.0780 *12*; α(L)=0.01312 *19*; α(M)=0.00307 *5*; α(N+..)=0.000951 *14*
11610.8	(31$^-$)	610.8	100	11000.0	(29$^-$)			
11625.4	34$^{(+)}$	597.2 *6*	100	11028.2	33$^{(+)}$	M1	0.0682	α(K)=0.0560 *8*; α(L)=0.00938 *14*; α(M)=0.00219 *4*; α(N+..)=0.000680 *10*
11683.0	35$^-$	571.3 *6*	100	11111.7	34$^-$	M1	0.0766	α(K)=0.0629 *9*; α(L)=0.01055 *15*; α(M)=0.00246 *4*; α(N+..)=0.000764 *11*
11934	(32$^-$)	630.0	100	11304	(30$^-$)			
12023.3	35$^+$	566.7 *6*	100	11456.6	34$^+$	M1	0.0783	α(K)=0.0642 *10*; α(L)=0.01078 *16*; α(M)=0.00252 *4*; α(N+..)=0.000781 *12*
12043.6	34$^+$	688.8 [a] *3*	100	11354.8	32$^+$			
12256.4	(33$^-$)	645.6	100	11610.8	(31$^-$)			
12282.4?	36$^-$	599.5 [f] *6*	<100	11683.0	35$^-$	M1	0.0675	α(K)=0.0554 *8*; α(L)=0.00928 *14*; α(M)=0.00217 *3*; α(N+..)=0.000673 *10*
12585.8	36$^+$	562.5 *6*	100	12023.3	35$^+$	M1	0.0798	α(K)=0.0655 *10*; α(L)=0.01099 *16*; α(M)=0.00257 *4*; α(N+..)=0.000797 *12*
12600	(34$^-$)	665.2	100	11934	(32$^-$)			

$^{196}_{82}Pb_{114}$-23

Adopted Levels, Gammas (continued)

γ(^{196}Pb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[d]	Comments
12763.7	36^+	720.1[a] *5*	100	12043.6	34^+			
12936	(35^-)	679.7	100	12256.4	(33^-)			
13515.8	38^+	752.1[a] *5*	100	12763.7	36^+			
150.3+x	J+1	150.3 *6*	100	0+x	J	M1	2.95 *6*	α(K)=2.41 *5*; α(L)=0.416 *8*; α(M)=0.0975 *18*; α(N+..)=0.0303 *6*
331.3+x	J+2	181.0 *6*	100	150.3+x	J+1	M1	1.75 *3*	α(K)=1.425 *24*; α(L)=0.246 *5*; α(M)=0.0575 *10*; α(N+..)=0.0179 *3*
529.9+x	J+3	198.6 *6*	100	331.3+x	J+2	M1	1.346 *22*	α(K)=1.099 *18*; α(L)=0.189 *4*; α(M)=0.0443 *8*; α(N+..)=0.01374 *23*
774.2+x	J+4	244.3 *6*	100	529.9+x	J+3	M1	0.756 *12*	α(K)=0.618 *10*; α(L)=0.1059 *17*; α(M)=0.0248 *4*; α(N+..)=0.00770 *12*
1071.9+x	J+5	297.7 *6*	100	774.2+x	J+4	M1	0.439	α(K)=0.359 *6*; α(L)=0.0613 *10*; α(M)=0.01435 *22*; α(N+..)=0.00445 *7*
1420.7+x	J+6	348.8 *6*	100	1071.9+x	J+5	M1	0.285	α(K)=0.234 *4*; α(L)=0.0397 *6*; α(M)=0.00930 *14*; α(N+..)=0.00288 *5*
1783.5+x	J+7	362.8 *6*	100	1420.7+x	J+6	M1	0.257	α(K)=0.210 *3*; α(L)=0.0357 *6*; α(M)=0.00835 *13*; α(N+..)=0.00259 *4*
2177.1+x	J+8	393.6 *6*	100	1783.5+x	J+7	M1	0.206	α(K)=0.1687 *25*; α(L)=0.0286 *5*; α(M)=0.00669 *10*; α(N+..)=0.00208 *3*
2590.8+x	J+9	413.7 *6*	100	2177.1+x	J+8	M1	0.180	α(K)=0.1476 *22*; α(L)=0.0250 *4*; α(M)=0.00585 *9*; α(N+..)=0.00181 *3*
3011.6+x	J+10	420.8 *6*	100	2590.8+x	J+9	M1	0.172	α(K)=0.1411 *21*; α(L)=0.0239 *4*; α(M)=0.00559 *9*; α(N+..)=0.00173 *3*
3435.3+x	J+11	423.7 *6*	100	3011.6+x	J+10	M1	0.1692	α(K)=0.1385 *20*; α(L)=0.0234 *4*; α(M)=0.00548 *8*; α(N+..)=0.001701 *25*
3893.1+x	J+12	457.8 *6*	100	3435.3+x	J+11	M1	0.1376	α(K)=0.1127 *17*; α(L)=0.0190 *3*; α(M)=0.00445 *7*; α(N+..)=0.001381 *20*
4386.6+x	J+13	493.5 *6*	<100	3893.1+x	J+12	M1	0.1127	α(K)=0.0924 *14*; α(L)=0.01557 *23*; α(M)=0.00364 *6*; α(N+..)=0.001129 *17*
4906.8+x?	J+14	520.2[f] *6*	<100	4386.6+x	J+13	M1	0.0981	α(K)=0.0804 *12*; α(L)=0.01353 *20*; α(M)=0.00316 *5*; α(N+..)=0.000981 *14*

[†] Values are from (HI,xnγ) or from evaluators′ selection of the best value. For SD bands, values are from (HI,xnγ):SD.
[‡] Relative photon branching ratios from each level, obtained mainly from (HI,xnγ), except as noted.
[#] From ce data, A_2, A_4 and DCO ratio, unless otherwise specified.
[@] From γγ(θ) and $T_{1/2}$(level). Mult=D,Q from dipole γ transition band (1995Mo19).
[&] From γ(lin pol) measurement of 2001Ro20. Six interband (SD-3 to SD-1) transitions from 935-945 were analyzed as one group giving POL=+1.14 *51* (2001Ro20) for the entire group.
[a] Values of the fraction of full Doppler shift given for this transition in SD band (1993Mo19), deduced from DSAM data.
[b] Interband transition from 1997Az05.
[c] The sign is In accordance with the phase convention.
[d] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
[e] Multiply placed with intensity suitably divided.
[f] Placement of transition in the level scheme is uncertain.

$^{196}_{82}Pb_{114}$-24

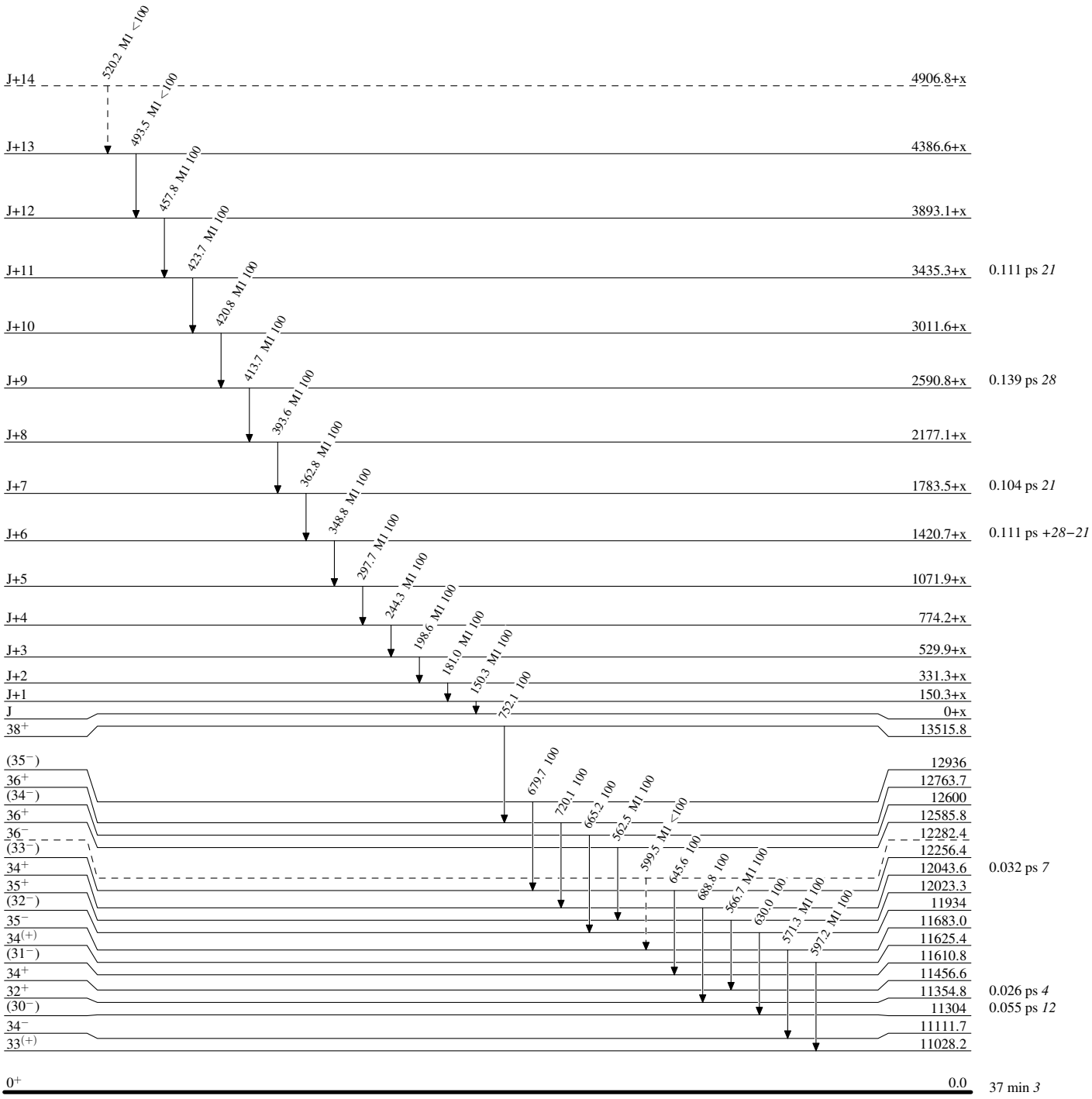
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{196}_{82}Pb_{114}$

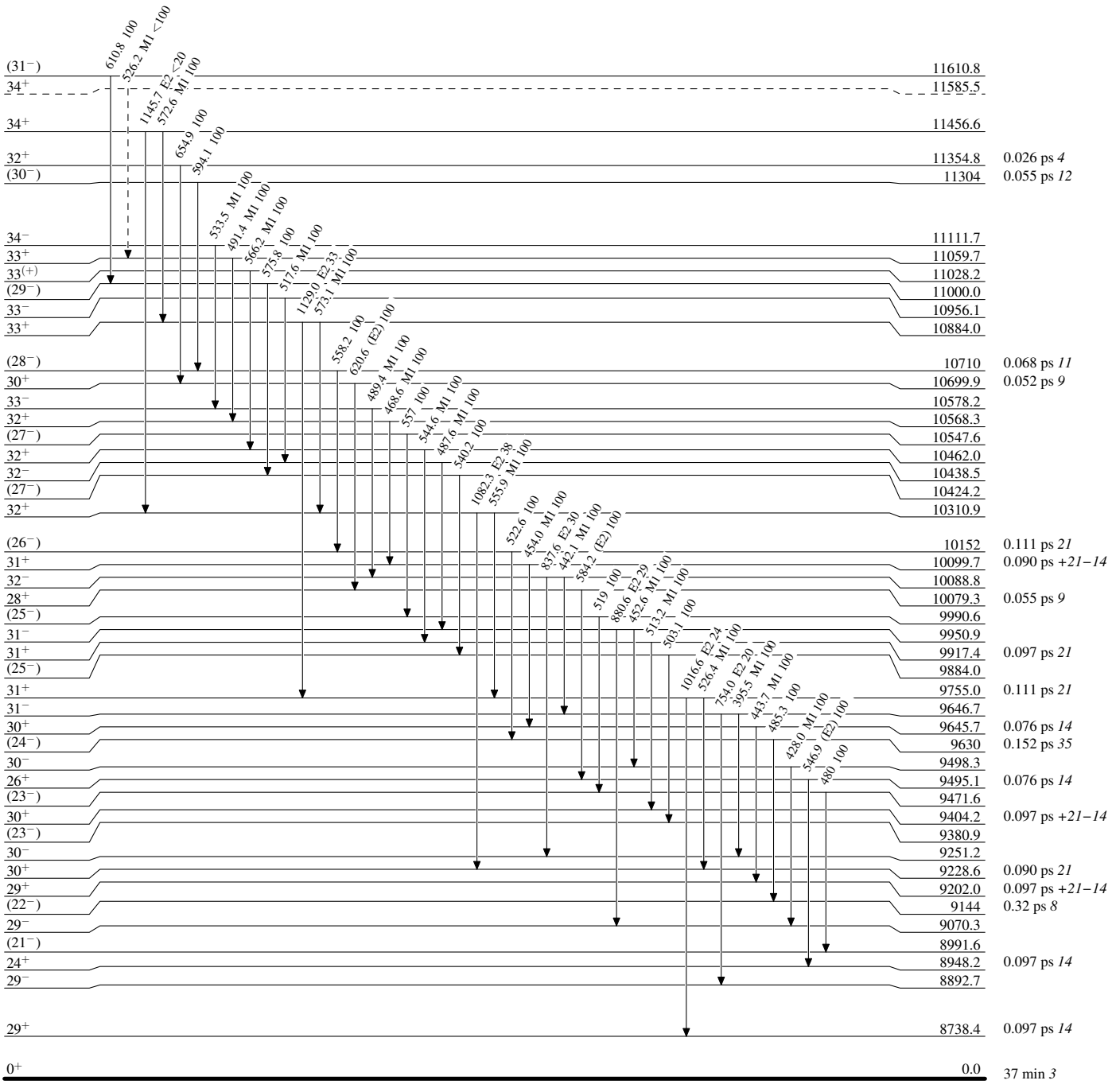
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{196}_{82}Pb_{114}$

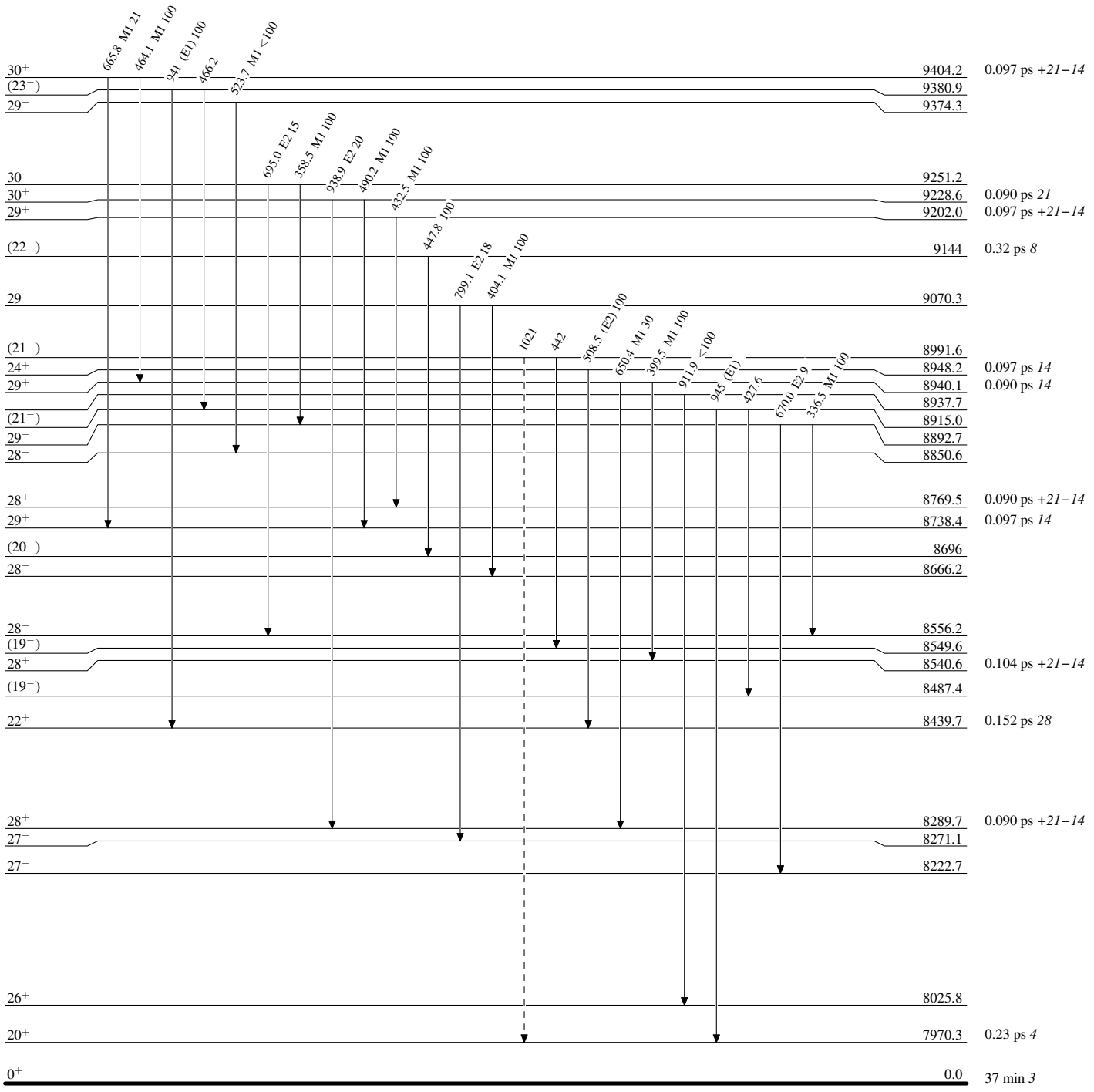
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

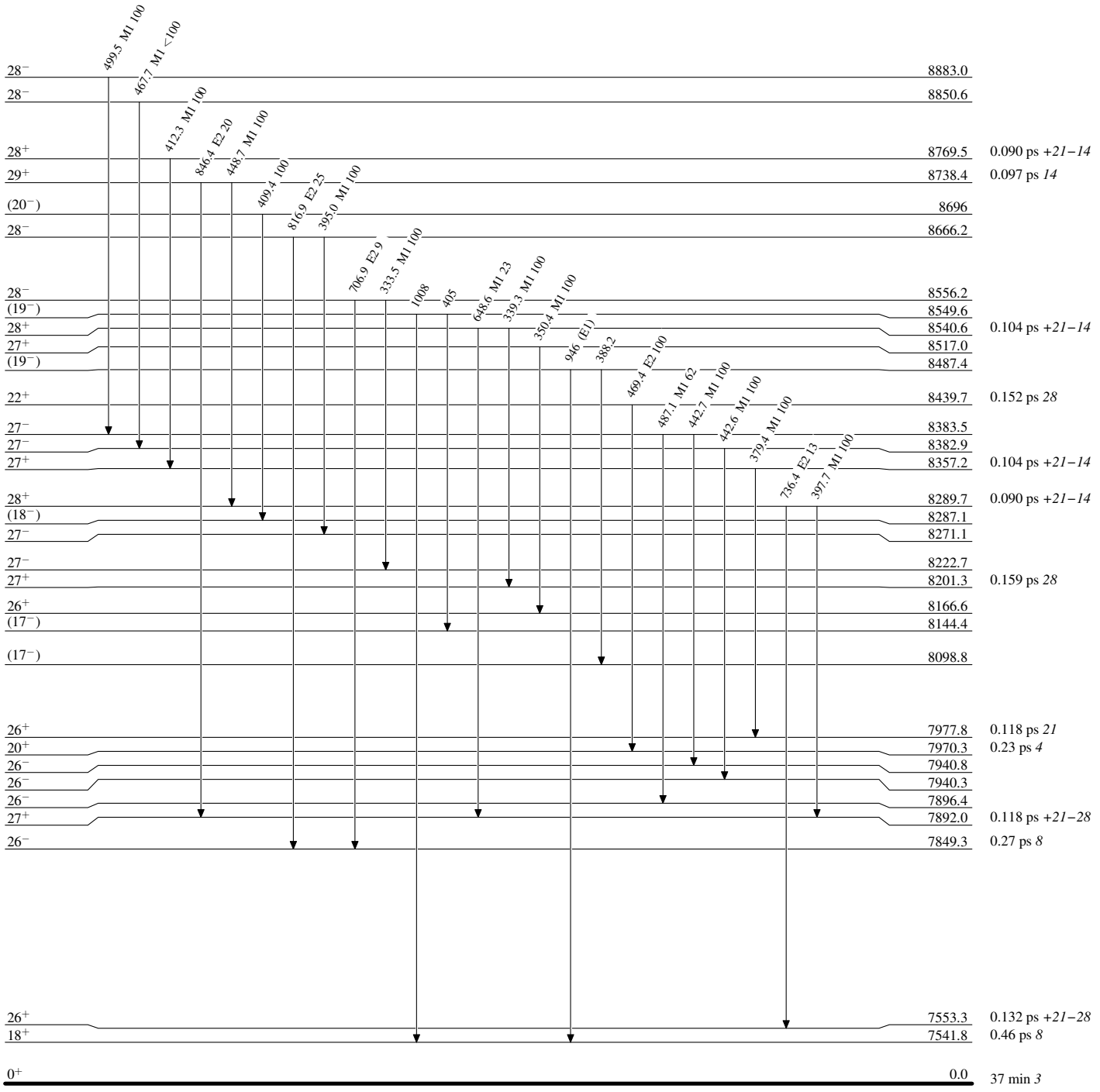


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

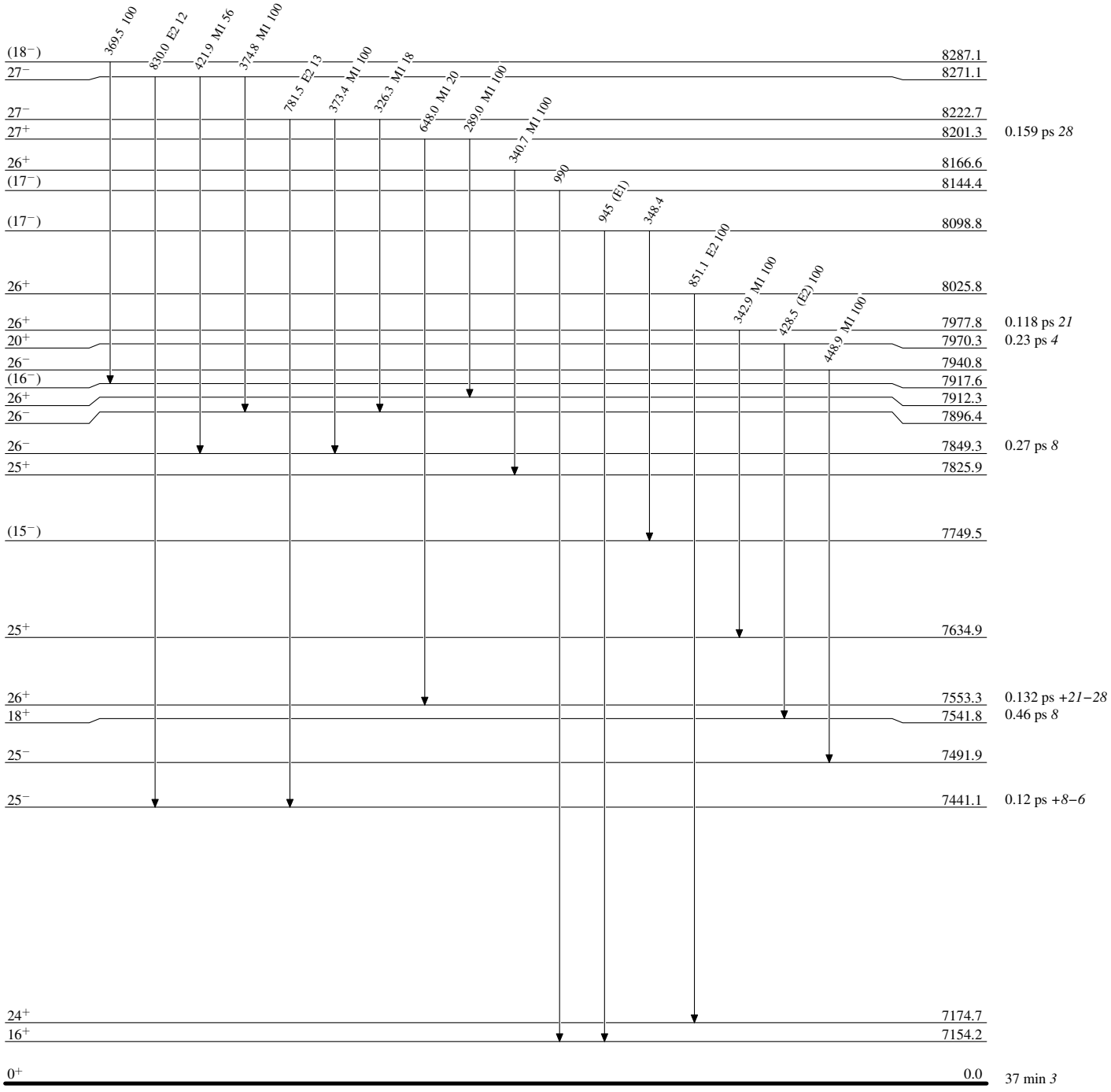


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

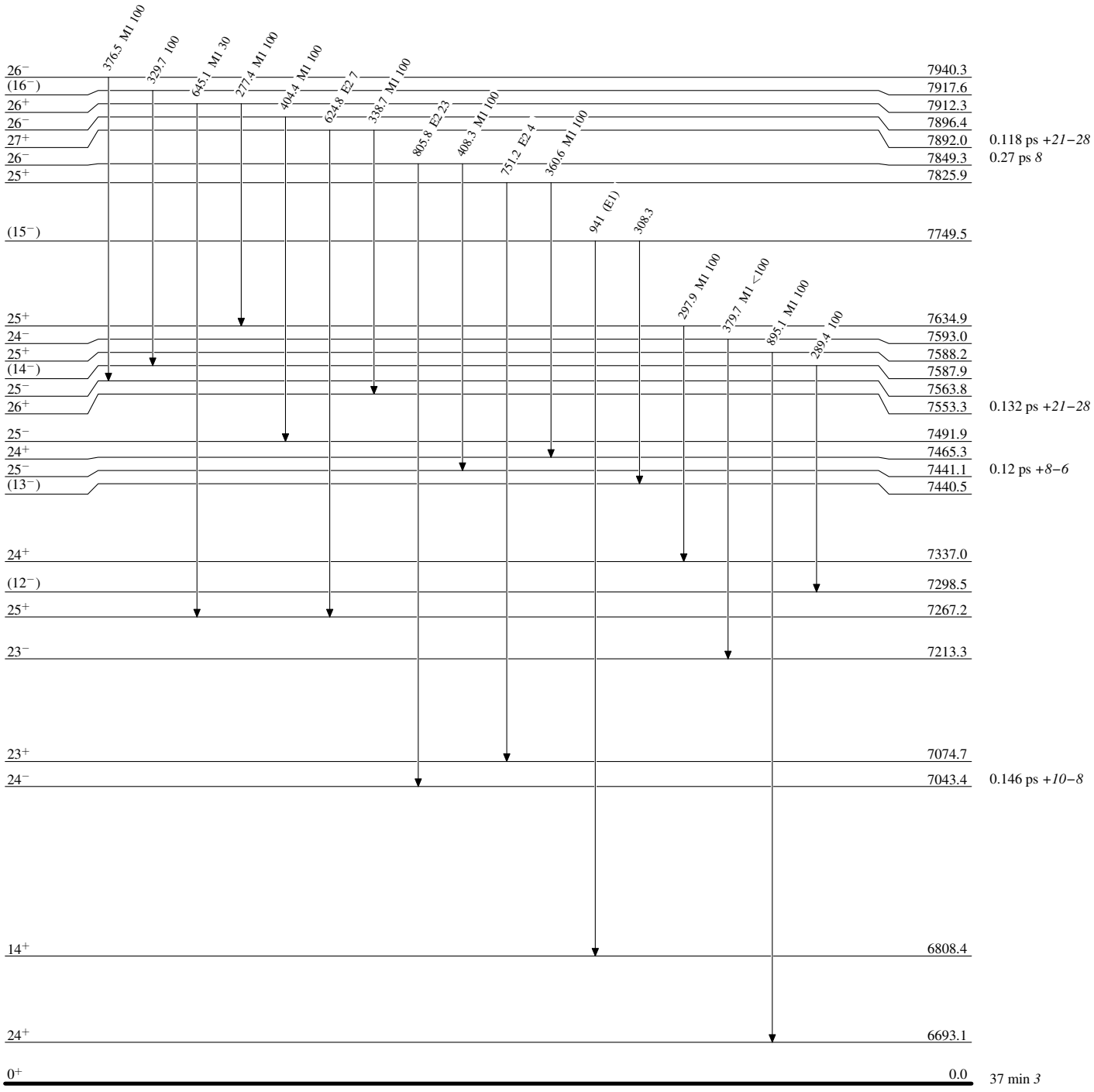


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{196}_{82}Pb_{114}$

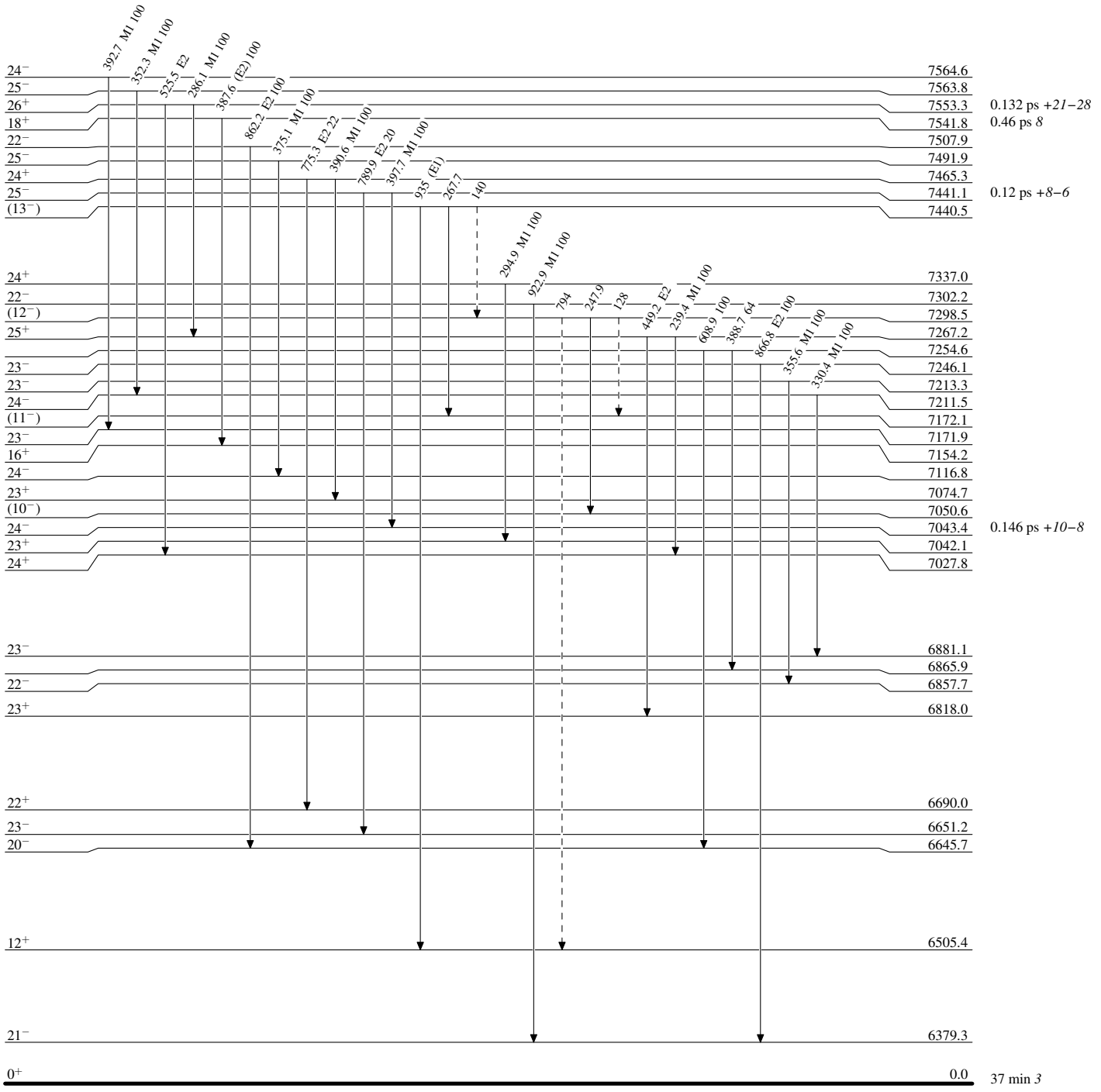
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{196}_{82}Pb_{114}$

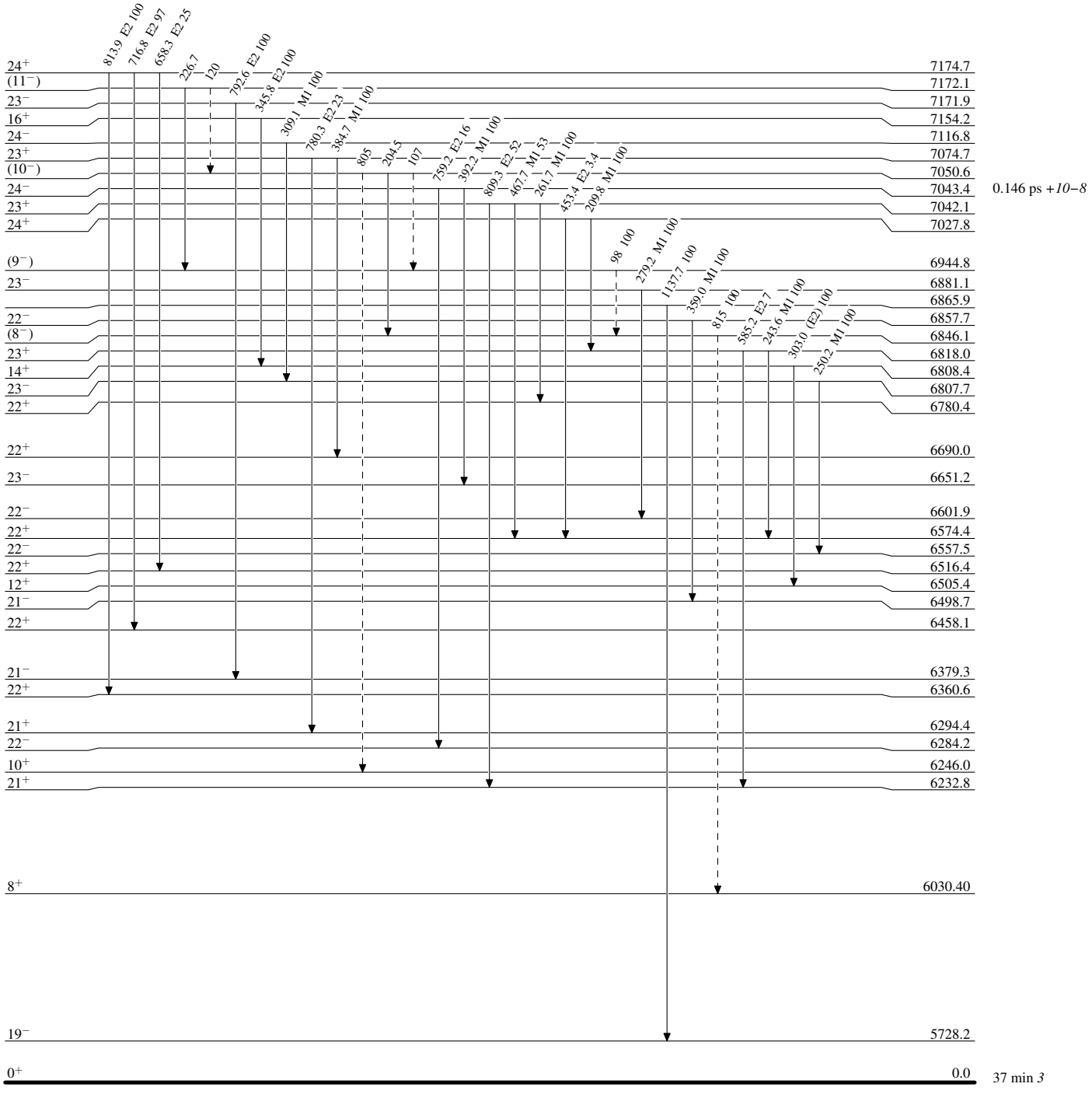
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

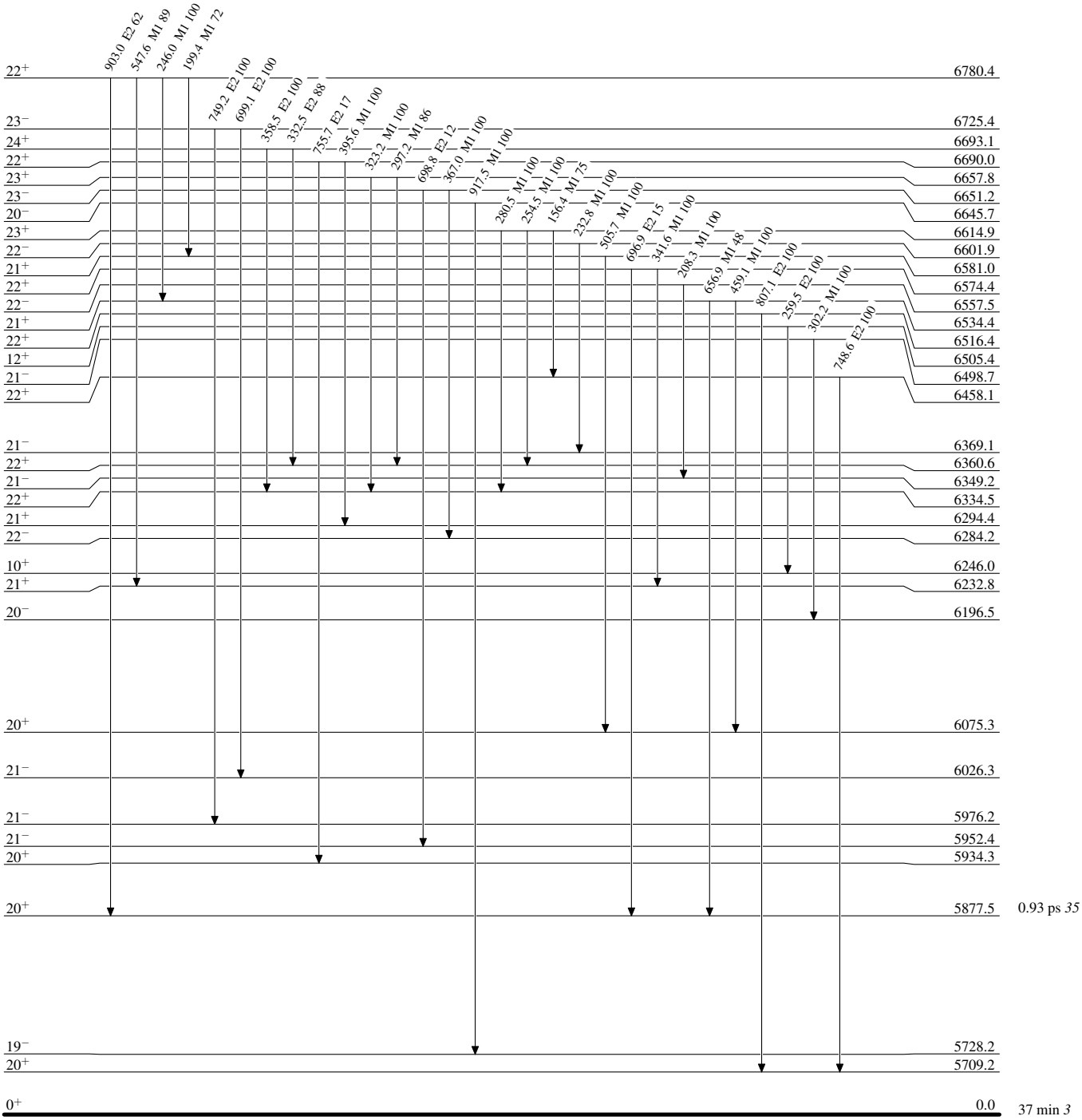


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

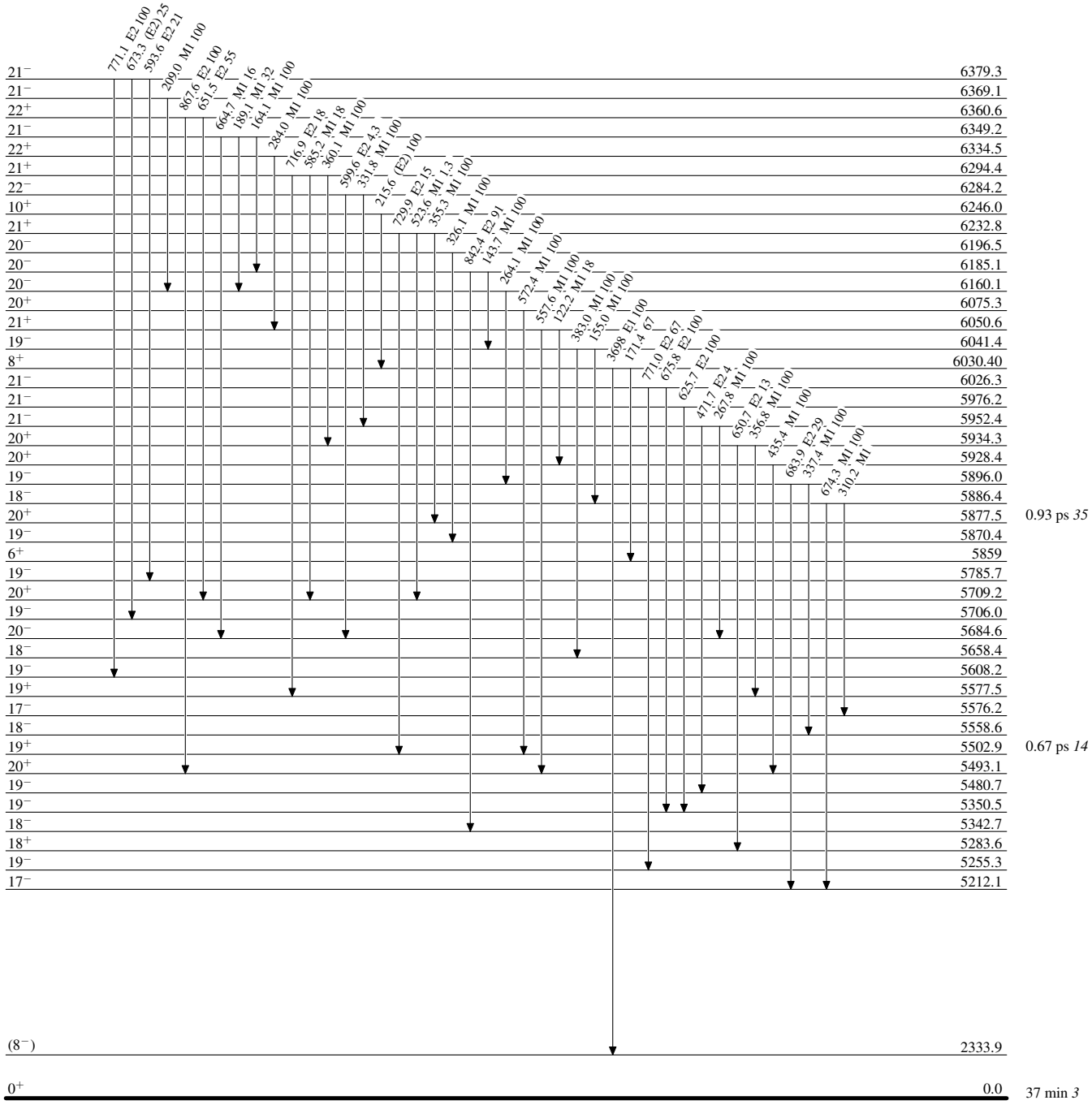


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

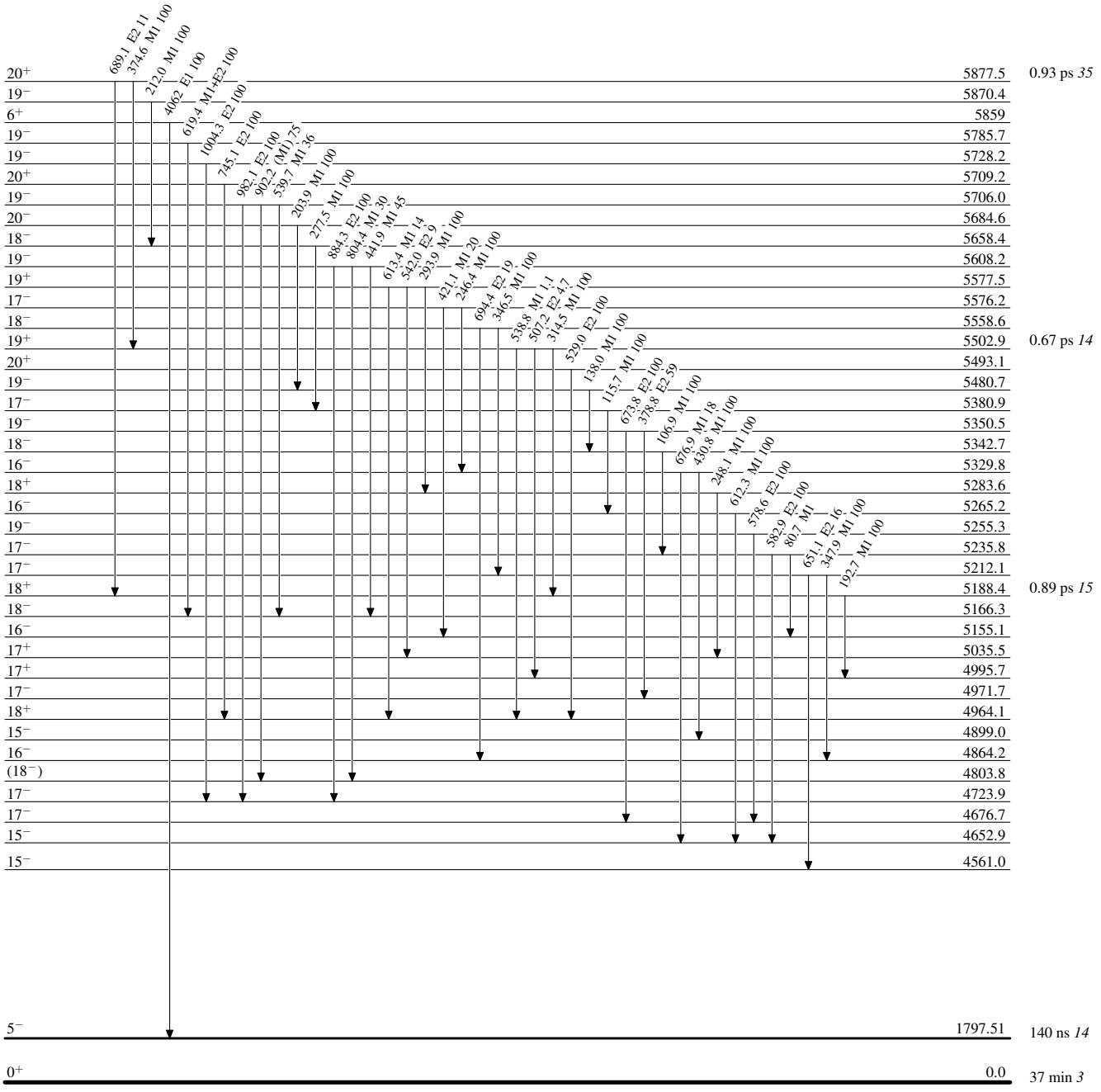


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

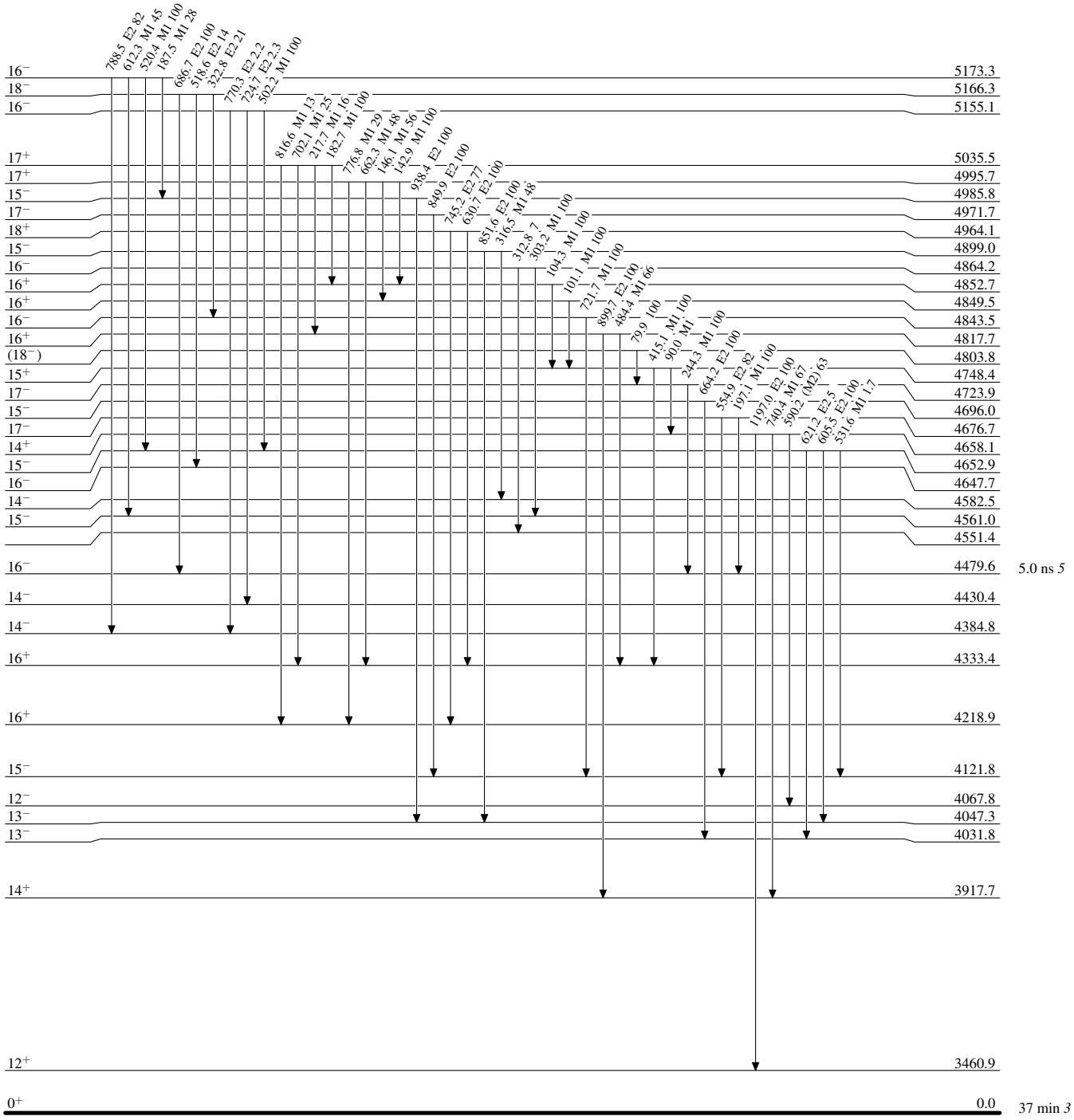


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

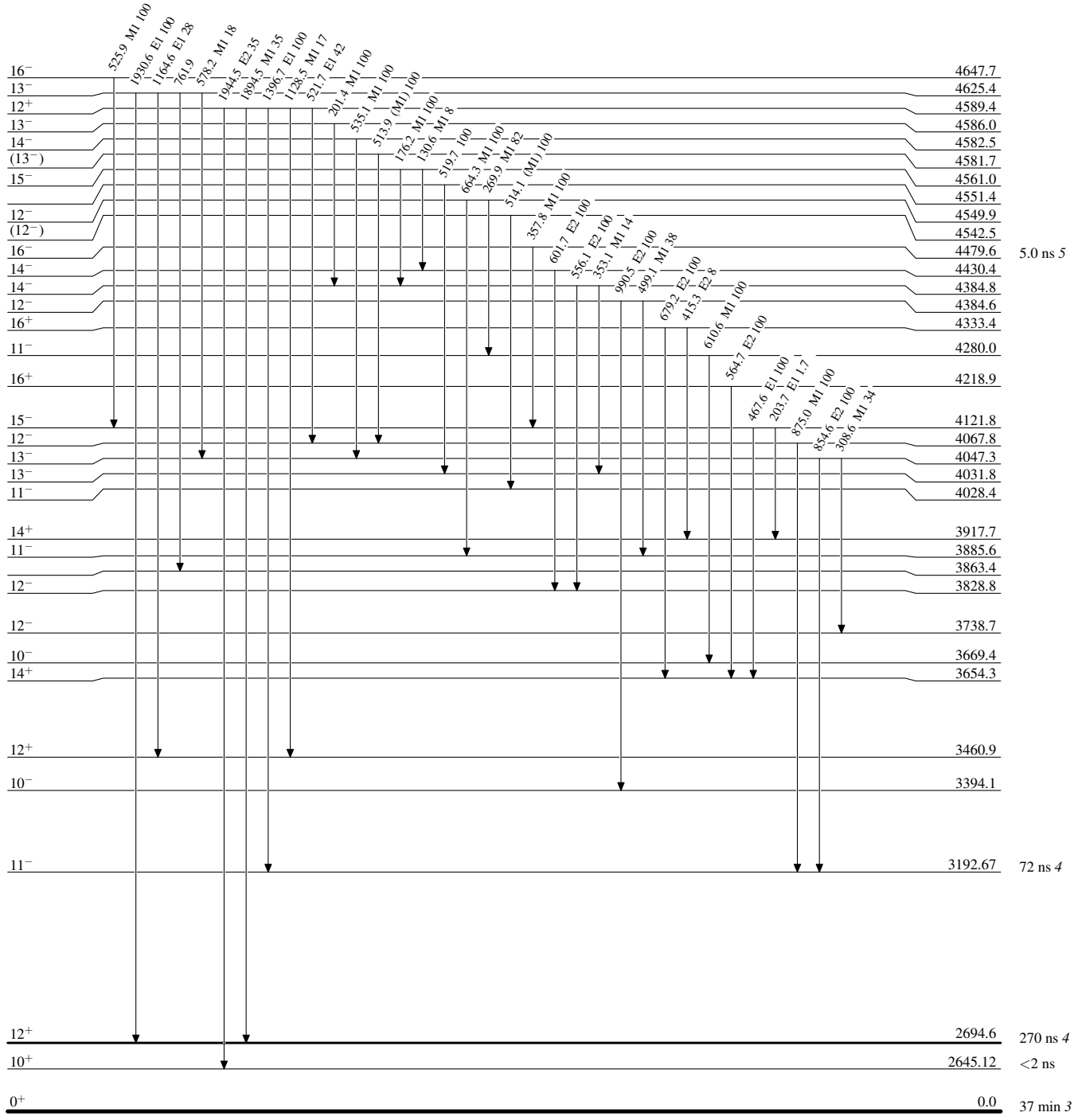


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

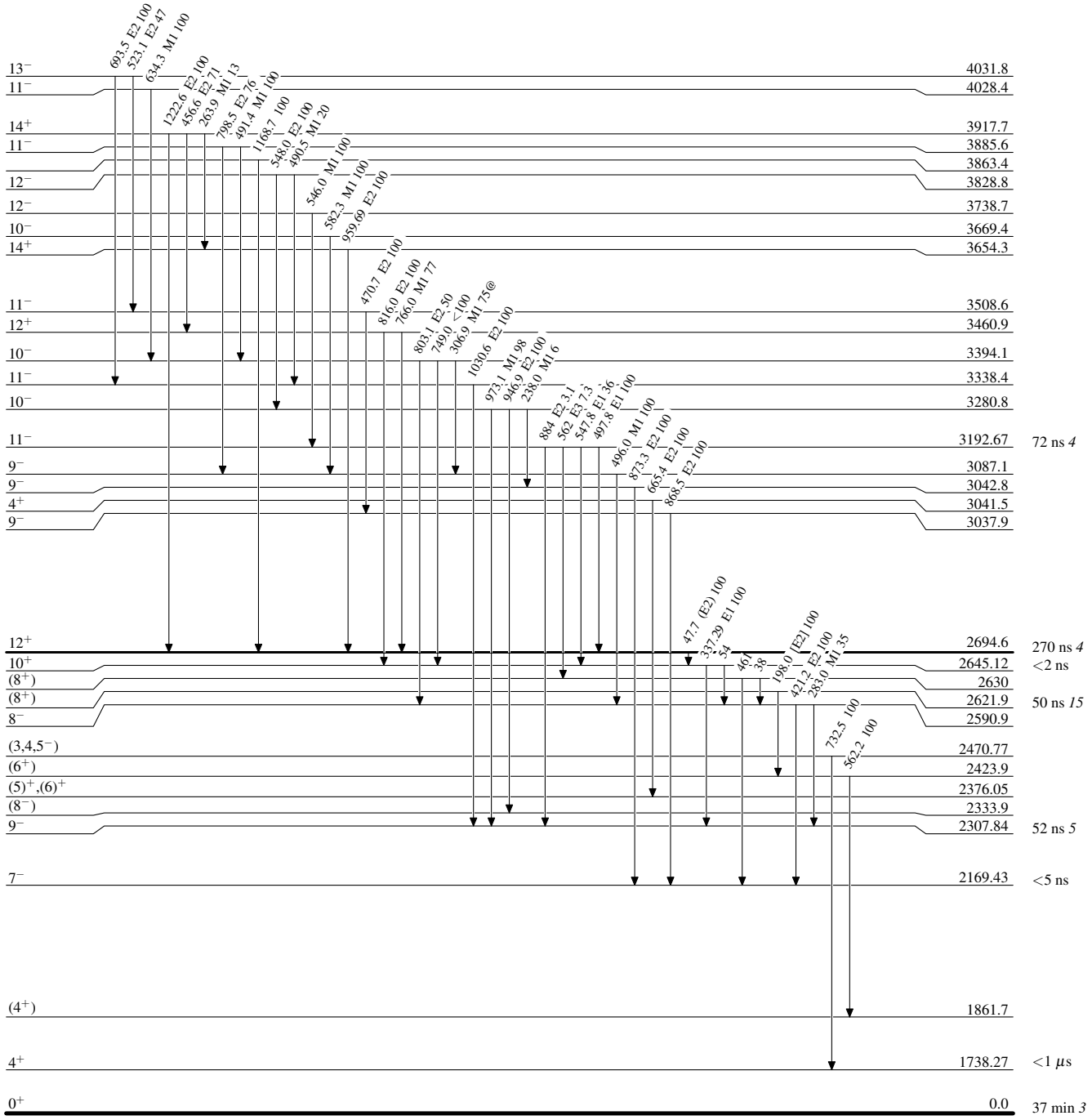


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
@ Multiply placed: intensity suitably divided

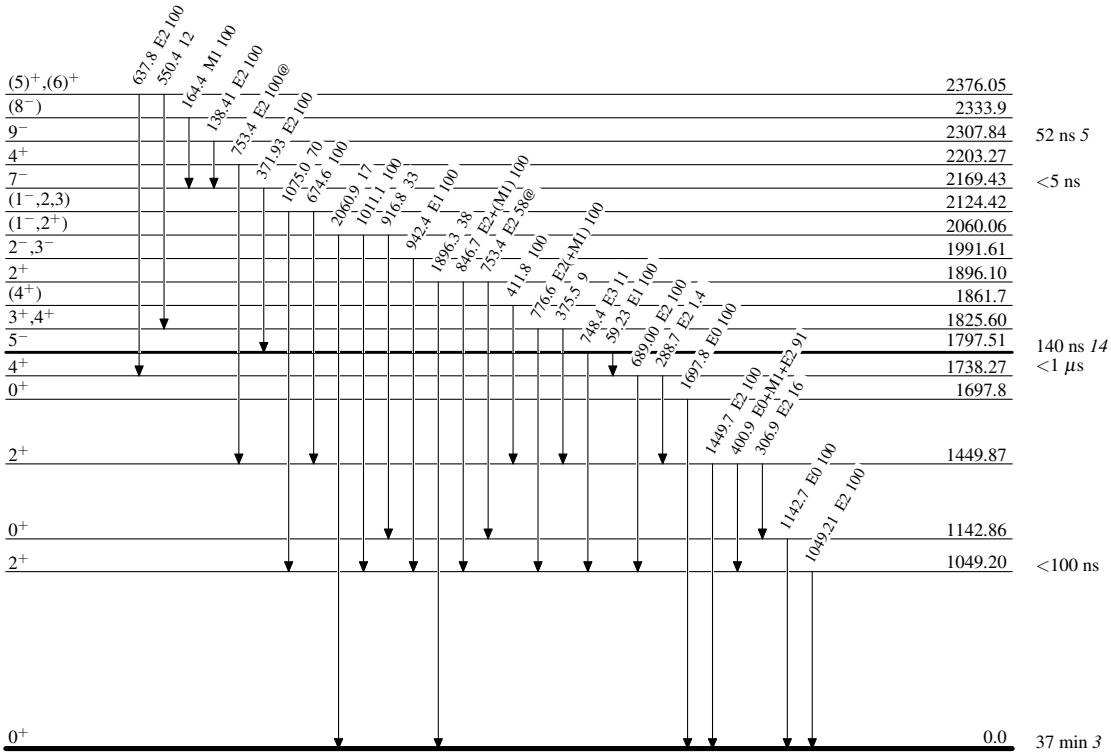


$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas

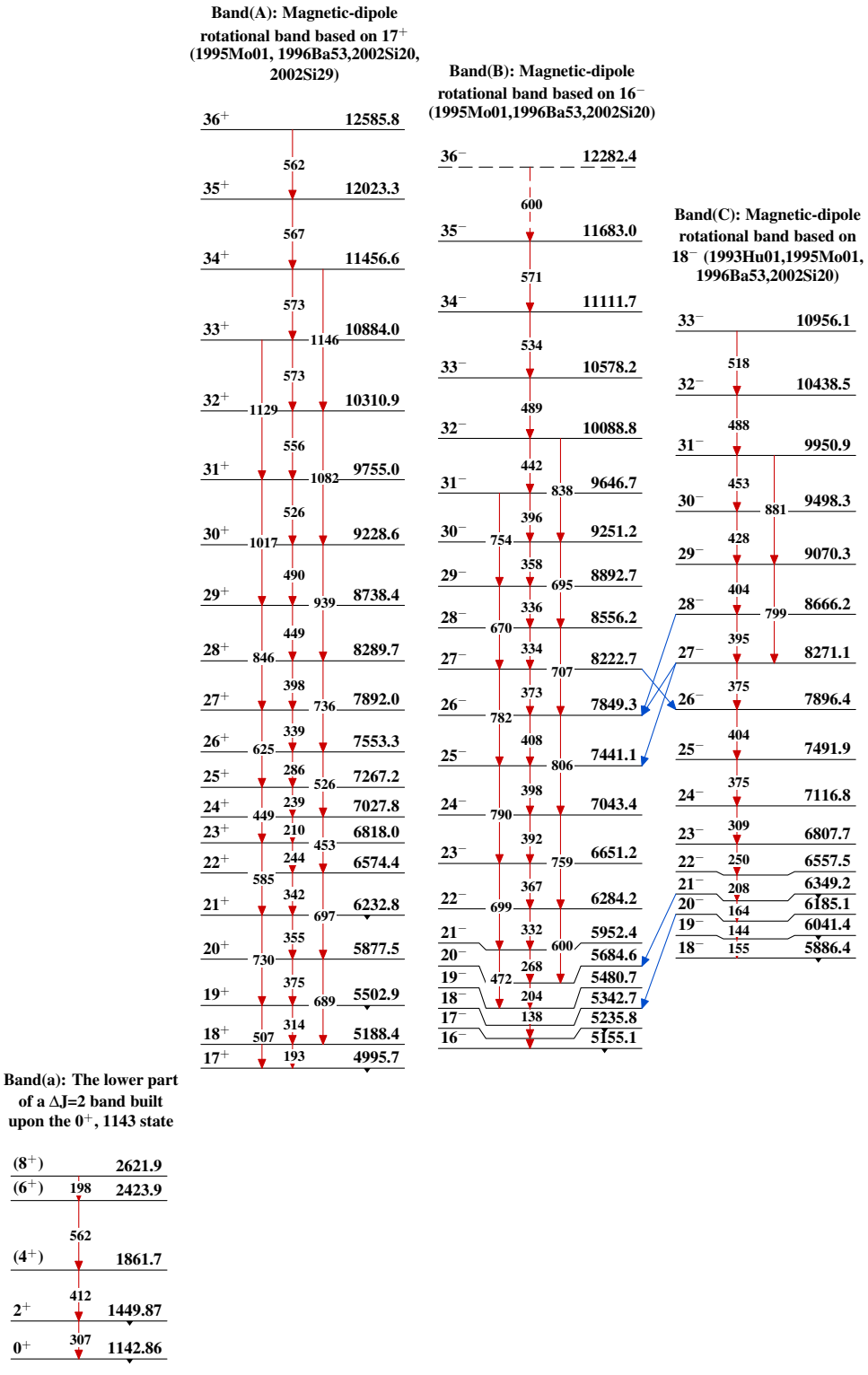
Level Scheme (continued)

Intensities: Relative photon branching from each level
@ Multiply placed: intensity suitably divided



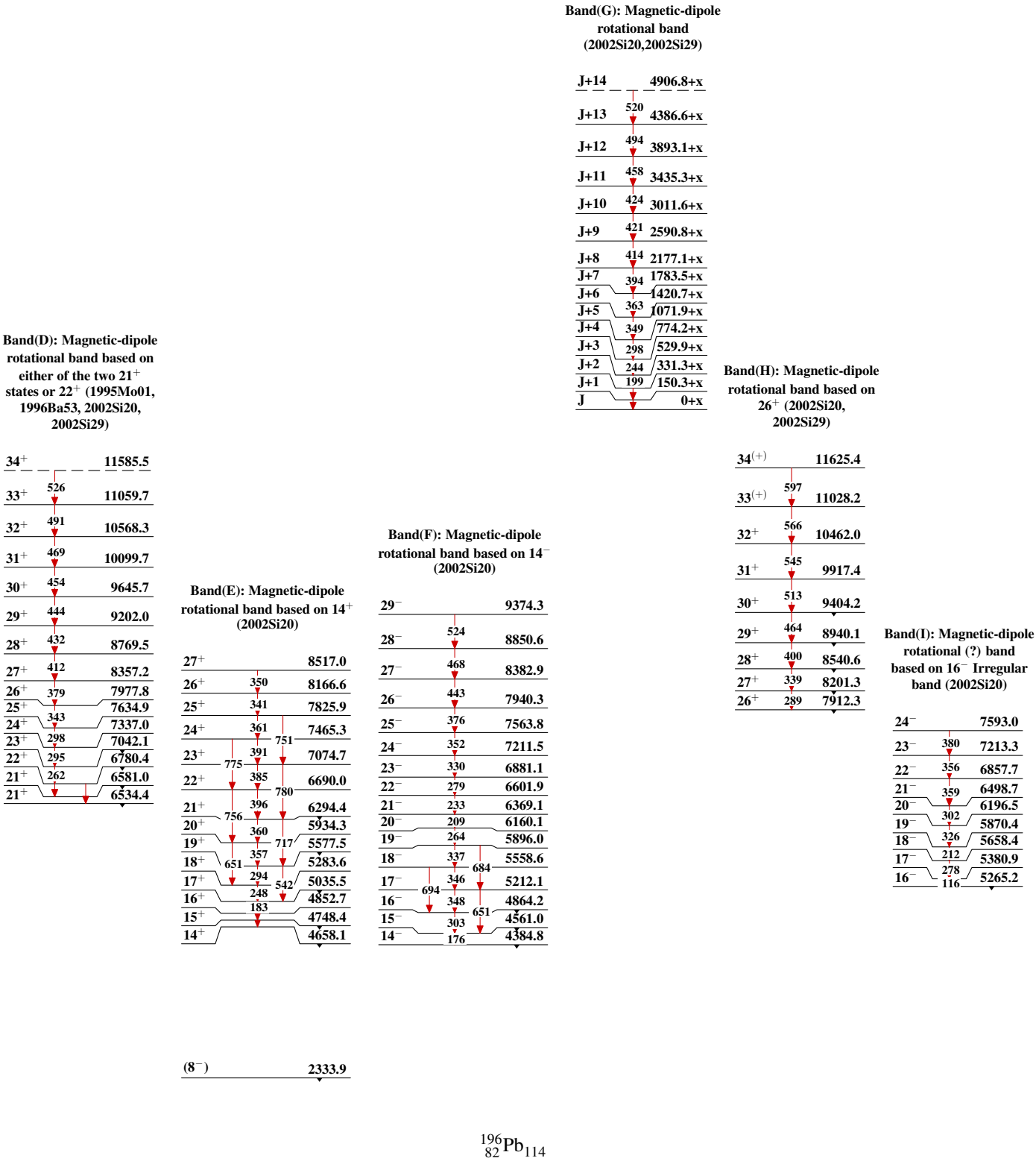
$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas



$^{196}_{82}Pb_{114}$

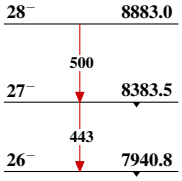
Adopted Levels, Gammas (continued)



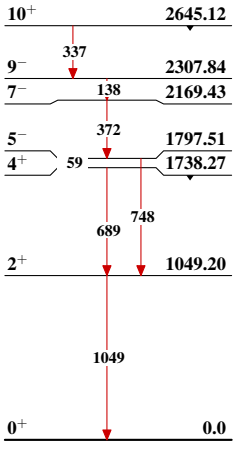
$^{196}_{82}Pb_{114}$

Adopted Levels, Gammas (continued)

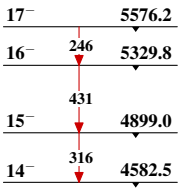
Band(J): Forking of band based on 18⁻, above J=25 (2002Si20)



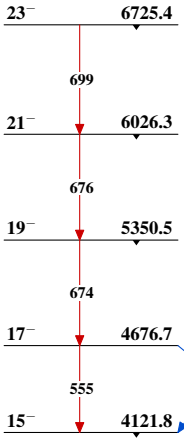
Band(K): γ cascade based on g.s (2002Si20,2005Dr11)



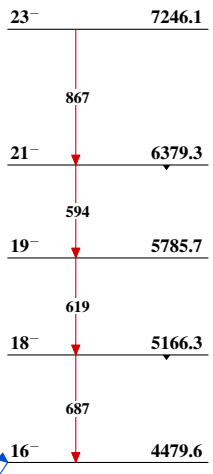
Band(L): γ cascade based on 14⁻ (2002Si20)



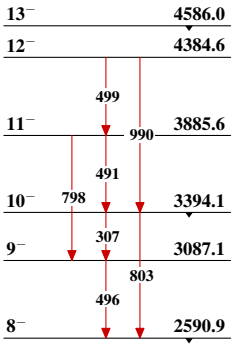
Band(M): γ cascade based on 15⁻ (2002Si20)



Band(N): γ cascade based on 16⁻ (2002Si20)



Band(O): γ cascade based on 8⁻ (2002Si20)



Adopted Levels, Gammas (continued)