Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

Q(β^-)=−4908 *13*; S(n)=9130 *26*; S(p)=2467 *16*; Q(α)=4500 *6* 2021Wa16

^{201}Bi Levels

Cross Reference (XREF) Flags

A ^{201}Po ε decay (15.50 min)
B ^{201}Po ε decay (8.96 min)
C ^{205}At α decay
D ^{203}Tl(α,6nγ)
E ^{196}Pt(^{10}B,5nγ)

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$	XREF	Comments
0[#]	9/2$^-$	103 min *3*	ABCDE	%ε+%β^+=100 μ=4.8 *3* (1988Wo12,2019StZV) J$^\pi$: Atomic beam (1960Li03); favored α-decay from ^{205}At (J^π=9/2$^-$,2018Cu02); μ. $T_{1/2}$: Weighted average of 110 min *10* (1950Ne77), 111 min *4* (1956St05), 94 min *3* (1966KaZY), 96 min *12* (1970Jo26) and 106.2 min *24* (1970DaZM). μ: Using static nuclear orientation with γ-ray detection technique.
846.35[@] *18*	1/2$^+$	58.5 min *11*	A	%ε+%β^+≈88.7; %IT≈11.0; %α≈0.3 %IT from ^{201}Po ε decay (15.50 min), %α from α HF syst. J$^\pi$: 846.3γ M4 to 9/2$^-$. $T_{1/2}$: Weighted average of 62 min *8* (1950Ne77), 52 min *2* (1964Si11), 59.1 min *6* (1966Ma51) and 57 min *5* (1970DaZM). E_α=5240 keV *6* (1966Ma51).
890.24[&] *13*	5/2$^-$		A	J$^\pi$: 890.1γ E2 to 9/2$^-$; direct ε feeding of this level in ^{201}Po ε decay (15.50 min, J^π=3/2$^-$).
904.23[&] *12*	(7/2)$^-$		A	J$^\pi$: 904.2γ M1+E2 to 9/2$^-$; observation in ^{201}Po ε decay (15.50 min, J^π=3/2$^-$).
964.40[&] *15*	11/2$^-$		B E	J$^\pi$: 964.3γ M1(+E2) to 9/2$^-$.
967.49[&] *17*	13/2$^-$		B DE	J$^\pi$: 967.4γ E2 to 9/2$^-$.
1086.21[a] *18*	3/2$^+$	260 ps *30*	A	J$^\pi$: 195.9γ E1 to 5/2$^-$; 240.1γ M1+E2 to 1/2$^+$. $T_{1/2}$: From 188.5ce(K)−239.8ce(K)(Δt) in 1986Be07 (^{201}Po ε decay (15.50 min)).
1186.59[c] *17*	(7/2)$^-$		A	J$^\pi$: 296.1γ to 5/2$^-$; 1186.7γ M1(+E2) to 9/2$^-$; observation in ^{201}Po ε decay (15.50 min, J^π=3/2$^-$).
1274.45 *19*	(5/2)$^+$		A	J$^\pi$: 188.6γ M1+E2 to 3/2$^+$; 428.2γ E2 to 1/2$^+$.
1379.34[b] *24*	15/2$^-$		B DE	J$^\pi$: 411.86γ M1+E2 to 13/2$^-$; 414.9γ to 11/2$^-$.
1441.71 *18*	7/2$^-$		A	J$^\pi$: 535.5γ M1 to 7/2$^-$; 551.9γ M1(+E2) to 5/2$^-$; 1442.2γ M1(+E2) to 9/2$^-$.
1470.87 *22*	(5/2,7/2)$^-$		A	J$^\pi$: 566.6γ M1(+E2) to 7/2$^-$, 1470.9γ to 9/2$^-$. Direct ε feeding of this level in ^{201}Po ε decay (15.50 min, J^π=3/2$^-$) excludes 9/2$^-$.
1474.6[b] *3*	17/2$^-$		B DE	J$^\pi$: 96.25γ M1(+E2) to 15/2$^-$.
1483.54 *24*	(3/2$^-$)		A	J$^\pi$: 593.3γ M1(+E2) to 5/2$^-$, 636.5γ to 1/2$^+$.
1501.89 *17*	(13/2$^+$)		B	J$^\pi$: 534.2γ to 13/2$^-$, 537.5γ to 11/2$^-$, 1502.4γ (E3) to 9/2$^-$. Strong population of this level in ^{201}Po ε decay (8.96 min, J^π=13/2$^+$).
1504.40 *23*			B	
1616.3 *4*	1/2$^+$,3/2$^+$,5/2$^+$		A	J$^\pi$: 530.1γ M1+E2 to 3/2$^+$.
1665.1 *3*			B	
1719.15 *22*	(11/2,13/2)$^+$		B E	J$^\pi$: 754.6γ E1 to 11/2$^-$, 217.6γ M1+E2 to (13/2$^+$).

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Adopted Levels, Gammas (continued)

^{201}Bi Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$	XREF	Comments
1746.5[d] *4*	17/2$^+$	5.1 ns *13*	B DE	J$^{\pi}$: 271.91γ E1 to 17/2$^-$. $\gamma(\theta)$'s are consistent with ΔJ=0, dipole transition. $T_{1/2}$: From $\gamma\gamma$(t) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)) using the centroid shift analysis. Other: 9.6 ns *6* from $\gamma\gamma$(t) in 1982Br21 (^{203}Tl(α,6nγ)) using gates on 272γ, 412γ and 967γ below the isomer (stop) and 186γ above the isomer (start). The prompt response function is obtained using $\gamma\gamma$(t) spectrum with gates on 412γ and 967γ (start) and 272γ (stop). One should note, however, that there is a difference between the time walk for the 186γ and 272γ, and hence, this value may be not so accurate.
1762.9 *3*			B	
1778.92 *22*	(3/2$^-$,5/2)		A	J$^{\pi}$: 874.6γ to 7/2$^-$, 889.2γ to 5/2$^-$; direct feeding in ^{201}Po ε decay (15.50 min, J^{π}=3/2$^-$).
1817.86 *22*	1/2$^+$,3/2,5/2$^+$		A	J$^{\pi}$: 543.4γ to 5/2$^+$, 731.7γ to 3/2$^+$, 971.4γ to 1/2$^+$.
1848.16 *25*	(5/2$^-$)		A	J$^{\pi}$: 944.2γ to 7/2$^-$, 1848.0γ to 9/2$^-$; direct feeding in ^{201}Po ε decay (J^{π}=3/2$^-$).
1858.02 *24*	3/2$^+$		A	J$^{\pi}$: 771.8γ E0+M1 to 3/2$^+$, 583.6γ M1+E2 to 5/2$^+$.
1927.32 *19*	(5/2$^-$)		A	J$^{\pi}$: 1023.0γ to 7/2$^-$, 1927.5γ to 9/2$^-$; direct feeding in ^{201}Po ε decay (J^{π}=3/2$^-$).
1932.3[e] *4*	21/2$^+$	<40 ns	DE	J$^{\pi}$: 185.77γ E2 to 17/2$^+$. $T_{1/2}$: Estimated from the 185.8γ(t) data in 1985Pi05 (^{196}Pt(^{10}B,5nγ)). The absence of prompt component in the time spectrum produced by gating on the 185.8γ, shown in figure 4(c) in 1985Pi05, suggests that 185.8γ depopulates an isomeric state.
1932.3+x[f] *4*	(25/2$^+$)	118 ns *28*	DE	Additional information 1. J$^{\pi}$: From syst (analogy to ^{203}Bi and ^{205}Bi) and shell-model calculations in 1985Pi05. $T_{1/2}$: From $\gamma\gamma$(t) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)) using time-difference spectra between 617.3γ with 967.4γ, 411.9γ, 271.9γ and 185.8γ. Other: 210 ns *20* from $\gamma\gamma$(t) in 1982Br21 (^{203}Tl(α,6nγ)) using gates on 617γ above the isomer (start) and 186γ, 272γ, 412γ and 967γ below the isomer (stop).
1944.24 *17*	(5/2$^-$)		A	J$^{\pi}$: 1054.7γ to 5/2$^-$ and 1944.2γ to 9/2$^-$; direct feeding in ^{201}Po ε decay (J^{π}=3/2$^-$).
1971.3+x[f] *3*	(27/2$^+$)	105 ns *75*	E	J$^{\pi}$: From systematics and shell-model calculations in 1985Pi05. $T_{1/2}$: From $\gamma\gamma$(t) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)) using time-difference spectra between 679.8γ with 967.4γ, 411.9γ, 271.9γ and 185.8γ.
2034.3 *7*			B	
2053.59 *21*	(5/2)$^+$		A	J$^{\pi}$: 779.4γ (M1) to 5/2$^+$; 1207.1γ E2 to 1/2$^+$.
2065.82 *17*	5/2$^+$		A	J$^{\pi}$: 624.7γ to 7/2$^-$, 1175.3γ (E1) to 5/2$^-$, 1219.3γ to 1/2$^+$.
2299.1+x *3*	(27/2$^+$)		DE	J$^{\pi}$: 366.6γ (M1) to (25/2$^+$).
2386.7 *5*			A	
2422.1 *3*	(3/2$^-$,5/2)		A	J$^{\pi}$: 1518.2γ to 7/2$^-$, 1531.7γ to 5/2$^-$; direct feeding in ^{201}Po ε decay (J^{π}=3/2$^-$).
2434.9 *3*	1/2$^+$,3/2,5/2$^+$		A	J$^{\pi}$: 1160.6γ to 5/2$^+$, 1588.5γ to 1/2$^+$.
2455.5 *3*	1/2$^+$,3/2,5/2$^+$		A	J$^{\pi}$: 1181.3γ to 5/2$^+$, 1609.0γ to 1/2$^+$.
2484.3 *3*	1/2,3/2,5/2$^+$		A	J$^{\pi}$: 1398.0γ to 3/2$^+$, 1638.1γ to 1/2$^+$.
2549.50+x *19*	(27/2$^+$)		DE	J$^{\pi}$: 250.2γ M1+E2 to (27/2$^+$), 617.27γ M1+E2 to (25/2$^+$).
2589.7+x *3*			E	
2592.88 *20*	(3/2$^-$,5/2$^+$)		A	J$^{\pi}$: 1689.3γ to 7/2$^-$; 1746.8γ to 1/2$^+$.
2612.00+x *10*	(27/2)		D	J$^{\pi}$: 679.7γ D to (25/2$^+$).
2651.13+x *24*	(29/2$^+$)		DE	J$^{\pi}$: 679.8γ M1+E2 to (27/2$^+$).
2668.31+x *21*	(29/2$^+$)		E	J$^{\pi}$: 118.81γ M1+E2 to (27/2$^+$), 736.0γ E2 to (25/2$^+$).
2740.01+x[g] *22*	(29/2$^-$)	124 ns *4*	DE	J$^{\pi}$: 88.88γ to (29/2$^+$), 190.49γ (E1) to (27/2$^+$); proposed

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Adopted Levels, Gammas (continued)

^{201}Bi Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF	Comments
			configuration. $T_{1/2}$: From 617.3γ(t) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)). Other: 160 ns 30 from $\gamma\gamma$(t) in 1982Br21 (^{203}Tl(α,6nγ)) using gates on 617γ above the isomer and 186γ, 272γ, 412γ and 967γ below the isomer.
2902.09 *25*	1/2$^+$,3/2,5/2$^+$	A	J$^{\pi}$: 2055.7γ to 1/2$^+$, 1627.7γ to (5/2)$^+$.
2905.9 *3*	1/2,3/2,5/2$^+$	A	J$^{\pi}$: 2059.4γ to 1/2$^+$, 1819.8γ to 3/2$^+$.
2994.7+x *8*		E	
3011.5+x *5*		E	
3238.9+x *3*	(31/2$^-$)	DE	J$^{\pi}$: 498.95γ M1+E2 to (29/2$^-$).
3422.9+x *9*		E	
3526.5+x *4*	(33/2$^-$)	DE	J$^{\pi}$: 287.3γ to (31/2$^-$), 786.3γ (E2) to (29/2$^-$).
3592.3+x? *10*		E	
3638.4+x *5*		DE	
3706.7+x *5*		E	
3727.61+x *24*	(33/2$^-$)	D	J$^{\pi}$: 987.6γ E2 to (29/2$^-$).
3810.8+x *4*	(33/2$^-$)	DE	J$^{\pi}$: 284.19γ M1(+E2) to (33/2$^-$), 572.4γ M1+E2 to (31/2$^-$).
3922.9+x *6*	(35/2$^-$)	E	J$^{\pi}$: 396.4γ M1+E2 to (33/2$^-$).
4075.3+x? *7*		E	
4484.5+x *9*		E	
5282.3+x *10*		E	

[†] From a least squares fit to Eγ.

[‡] From deduced γ-ray transition multipolarities using $\gamma(\theta)$ and DCO in ^{196}Pt(^{10}B,5nγ), $\gamma(\theta)$ in ^{203}Tl(α,6nγ) and α(K)exp, α(L)exp in ^{201}Po ε decay (15.6 min) and ^{201}Po ε decay (8.96 min), unless otherwise stated.

[#] Configuration=π $h^{+1}_{9/2}$.

[@] Configuration=π $s^{-1}_{1/2}$.

[&] Configuration=π $(h^{+1}_{9/2})\otimes 2^+$.

[a] Configuration=π $d^{-1}_{3/2}$.

[b] Configuration=π $(h^{+1}_{9/2})\otimes 4^+$.

[c] Configuration=π $f^{+1}_{7/2}$.

[d] Admixture of configuration= π $(h^{+1}_{9/2})$ ν $(f^{-1}_{5/2},i^{-1}_{13/2})_{5-}$ and configuration=π $(h^{+1}_{9/2})$ ν $(p^{-1}_{3/2},i^{-1}_{13/2})_{5-}$.

[e] Admixture of configuration= π $(h^{+1}_{9/2})$ ν $(f^{-1}_{5/2},i^{-1}_{13/2})_{7-}$ and configuration=π $(h^{+1}_{9/2})$ ν $(p^{-1}_{3/2},i^{-1}_{13/2})_{7-}$.

[f] Configuration=π $(h^{+1}_{9/2})$ ν $(f^{-1}_{5/2},i^{-1}_{13/2})_{9-}$.

[g] Configuration=π $(h^{+1}_{9/2})$ ν $(i^{-2}_{13/2})_{12+}$.

Adopted Levels, Gammas (continued)

$\gamma(^{201}Bi)$

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
846.35	$1/2^+$	846.3[‡] *3*	100[‡]	0	$9/2^-$	M4		0.292 *4*	B(M4)(W.u.)=5.7×10^{-4} *7* α(K)=0.2100 *30*; α(L)=0.0617 *9*; α(M)=0.01563 *22* α(N)=0.00404 *6*; α(O)=0.000810 *11*; α(P)=8.96×10^{-5} *13* Mult.: From α(K)exp and K/Lexp in 1986Br28 (^{201}Po ε decay (15.50 min)).
890.24	$5/2^-$	890.1[‡] *2*	100[‡]	0	$9/2^-$	E2		0.00880 *12*	α(K)=0.00689 *10*; α(L)=0.001448 *20*; α(M)=0.000348 *5* α(N)=8.89×10^{-5} *12*; α(O)=1.774×10^{-5} *25*; α(P)=1.947×10^{-6} *27* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
904.23	$(7/2)^-$	904.2[‡] *2*	100[‡]	0	$9/2^-$	M1+E2	0.5 *4*	0.0216 *31*	α(K)=0.0177 *26*; α(L)=0.0030 *4*; α(M)=0.00071 *9* α(N)=0.000181 *23*; α(O)=3.7×10^{-5} *5*; α(P)=4.4×10^{-6} *6* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
964.40	$11/2^-$	964.3[#] *2*	100[#]	0	$9/2^-$	M1(+E2)	−0.04 *7*	0.02109 *33*	α(K)=0.01730 *27*; α(L)=0.00289 *4*; α(M)=0.000677 *10* α(N)=0.0001730 *26*; α(O)=3.54×10^{-5} *5*; α(P)=4.23×10^{-6} *7* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)); $\gamma(\theta)$ in 1985Pi05 (^{196}Pt(^{10}B,5nγ)). δ: From $\gamma(\theta)$ in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
967.49	$13/2^-$	967.4[#] *2*	100[#]	0	$9/2^-$	E2		0.00746 *10*	α(K)=0.00590 *8*; α(L)=0.001190 *17*; α(M)=0.000285 *4* α(N)=7.27×10^{-5} *10*; α(O)=1.456×10^{-5} *20*; α(P)=1.616×10^{-6} *23* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (8.96 min)); $\gamma(\theta)$ in 1982Br21 (^{203}Tl(α,6nγ)) and 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
1086.21	$3/2^+$	195.9[‡] *3*	0.60[‡] *9*	890.24	$5/2^-$	E1		0.0841 *12*	B(E1)(W.u.)=4.6×10^{-7} *+10−8* α(K)=0.0681 *10*; α(L)=0.01227 *18*; α(M)=0.00289 *4* α(N)=0.000730 *11*; α(O)=0.0001440 *21*; α(P)=1.541×10^{-5} *22* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		240.1[‡] *2*	100[‡] *4*	846.35	$1/2^+$	E2+M1	3.0 *+4−3*	0.303 *13*	B(M1)(W.u.)=0.00047 *+12−10*; B(E2)(W.u.)=26.8 *+36−29* α(K)=0.169 *12*; α(L)=0.1004 *15*; α(M)=0.0259 *4* α(N)=0.00659 *10*; α(O)=0.001250 *19*; α(P)=0.0001106 *22* Mult.,δ: From K/L in 1986Br28 (^{201}Po ε decay (15.50 min)).
1186.59	$(7/2)^-$	296.1[‡] *3*	9.3[‡] *8*	890.24	$5/2^-$	[M1]		0.481 *7*	α(K)=0.392 *6*; α(L)=0.0678 *10*; α(M)=0.01592 *23* α(N)=0.00407 *6*; α(O)=0.000832 *12*; α(P)=9.91×10^{-5} *14*
		1186.7[‡] *2*	100[‡] *4*	0	$9/2^-$	M1(+E2)	<0.9	0.0107 *17*	α(K)=0.0088 *14*; α(L)=0.00148 *21*; α(M)=0.00035 *5* α(N)=8.9×10^{-5} *12*; α(O)=1.81×10^{-5} *26*; α(P)=2.15×10^{-6} *32*;

$^{201}_{83}Bi_{118}$-4

Adopted Levels, Gammas (continued)

γ(^{201}Bi) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
									α(IPF)=4.7×10^{-6} *5* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
1274.45	(5/2)$^+$	188.6[‡] *3*	55.9[‡] *24*	1086.21	3/2$^+$	M1+E2	0.53 *8*	1.43 *7*	α(K)=1.11 *7*; α(L)=0.245 *4*; α(M)=0.0593 *12* α(N)=0.01514 *31*; α(O)=0.00302 *5*; α(P)=0.000332 *7* Mult.,δ: From α(K)exp and K/L in 1986Br28 (^{201}Po ε decay (15.50 min)).
		428.2[‡] *3*	100[‡] *4*	846.35	1/2$^+$	(E2)		0.0451 *6*	α(K)=0.0298 *4*; α(L)=0.01146 *16*; α(M)=0.00290 *4* α(N)=0.000738 *10*; α(O)=0.0001423 *20*; α(P)=1.355×10^{-5} *19* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
1379.34	15/2$^-$	411.86[†] *20*	100[†] *3*	967.49	13/2$^-$	M1+E2	−0.023 *17*	0.1966 *28*	α(K)=0.1606 *23*; α(L)=0.0275 *4*; α(M)=0.00646 *9* α(N)=0.001652 *23*; α(O)=0.000338 *5*; α(P)=4.02×10^{-5} *6* Mult.: From γ(θ) and α(exp) in 1982Br21 (^{203}Tl(α,6nγ)), γ(θ) and DCO in 1985Pi05 (^{196}Pt(^{10}B,5nγ)). δ: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)). Other: ≈0.1 from γ(θ) in 1982Br21 (^{203}Tl(α,6nγ)).
		414.9[†] *5*	3.57[†] *17*	964.40	11/2$^-$	[E2]		0.0489 *7*	α(K)=0.0319 *5*; α(L)=0.01274 *19*; α(M)=0.00323 *5* α(N)=0.000822 *12*; α(O)=0.0001582 *23*; α(P)=1.496×10^{-5} *22*
1441.71	7/2$^-$	537.5[‡] *2*	58[‡] *7*	904.23	(7/2)$^-$	M1		0.0968 *14*	α(K)=0.0792 *11*; α(L)=0.01347 *19*; α(M)=0.00316 *4* α(N)=0.000808 *11*; α(O)=0.0001651 *23*; α(P)=1.969×10^{-5} *28* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		551.9[‡] *3*	100[‡] *4*	890.24	5/2$^-$	M1(+E2)	<0.7	0.079 *11*	α(K)=0.065 *9*; α(L)=0.0113 *12*; α(M)=0.00267 *28* α(N)=0.00068 *7*; α(O)=0.000139 *15*; α(P)=1.64×10^{-5} *20* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		1442.2[‡] *6*	42[‡] *4*	0	9/2$^-$	M1(+E2)	<1.4	0.0063 *13*	α(K)=0.0051 *11*; α(L)=0.00085 *17*; α(M)=0.00020 *4* α(N)=5.1×10^{-5} *10*; α(O)=1.04×10^{-5} *21*; α(P)=1.23×10^{-6} *26*; α(IPF)=7.1×10^{-5} *12* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).

$^{201}_{83}Bi_{118}$-5

Adopted Levels, Gammas (continued)

γ(^{201}Bi) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
1470.87	(5/2,7/2)$^-$	566.6[‡] *3*	32[‡] *4*	904.23	(7/2)$^-$	M1(+E2)	<0.9	0.071 *14*	α(K)=0.057 *12*; α(L)=0.0102 *16*; α(M)=0.00239 *35* α(N)=0.00061 *9*; α(O)=0.000125 *19*; α(P)=1.46×10^{-5} *25* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		1470.9[‡] *3*	100[‡] *7*	0	9/2$^-$				
1474.6	17/2$^-$	95.26[†] *15*	100[†]	1379.34	15/2$^-$	M1(+E2)		10.0 *17*	α(K)=5 *5*; α(L)=3.8 *21*; α(M)=1.0 *6* α(N)=0.25 *15*; α(O)=0.047 *26*; α(P)=0.0040 *16* Mult.: From γ(θ) and α(exp) in 1982Br21 (^{203}Tl(α,6nγ)), γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
1483.54	(3/2$^-$)	593.3[‡] *2*	100[‡] *4*	890.24	5/2$^-$	M1(+E2)	<0.33	0.0720 *28*	α(K)=0.0588 *24*; α(L)=0.01006 *33*; α(M)=0.00236 *8* α(N)=0.000603 *19*; α(O)=0.000123 *4*; α(P)=1.47×10^{-5} *5* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		636.5[‡a] *2*	12.1[‡] *15*	846.35	1/2$^+$	[E1]		0.00609 *9*	α(K)=0.00504 *7*; α(L)=0.000802 *11*; α(M)=0.0001863 *26* α(N)=4.74×10^{-5} *7*; α(O)=9.58×10^{-6} *13*; α(P)=1.106×10^{-6} *15*
1501.89	(13/2$^+$)	534.2[#] *3*	42.5[#] *17*	967.49	13/2$^-$	[E1]		0.00865 *12*	α(K)=0.00714 *10*; α(L)=0.001153 *16*; α(M)=0.000269 *4* α(N)=6.83×10^{-5} *10*; α(O)=1.376×10^{-5} *19*; α(P)=1.576×10^{-6} *22*
		537.5[#] *2*	100[#] *6*	964.40	11/2$^-$	[E1]		0.00854 *12*	α(K)=0.00705 *10*; α(L)=0.001138 *16*; α(M)=0.000265 *4* α(N)=6.74×10^{-5} *9*; α(O)=1.359×10^{-5} *19*; α(P)=1.556×10^{-6} *22*
		1502.4[#] *3*	3.1[#] *5*	0	9/2$^-$	(E3)		0.00677 *9*	α(K)=0.00528 *7*; α(L)=0.001108 *16*; α(M)=0.000267 *4* α(N)=6.82×10^{-5} *10*; α(O)=1.371×10^{-5} *19*; α(P)=1.539×10^{-6} *22*; α(IPF)=2.92×10^{-5} *4* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (8.96 min)).
1504.40		540.1[#] *3*	100[#] *5*	964.40	11/2$^-$				
		1504.3[#] *3*	9.3[#] *21*	0	9/2$^-$				

$^{201}_{83}Bi_{118}$-6

Adopted Levels, Gammas (continued)

γ(^{201}Bi) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
1616.3	1/2$^+$,3/2$^+$,5/2$^+$	530.1[‡] *3*	100[‡]	1086.21	3/2$^+$	M1+E2	1.4 *+5−3*	0.052 *9*	α(K)=0.040 *8*; α(L)=0.0086 *10*; α(M)=0.00207 *22* α(N)=0.00053 *6*; α(O)=0.000106 *12*; α(P)=1.17×10^{-5} *16* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
1665.1		697.6[#] *2*	100[#]	967.49	13/2$^-$				
1719.15	(11/2,13/2)$^+$	217.6[#] *3*	8.7[#] *14*	1501.89	(13/2$^+$)	M1(+E2)	<1.7	0.83 *29*	α(K)=0.63 *29*; α(L)=0.155 *5*; α(M)=0.0379 *7* α(N)=0.00967 *16*; α(O)=0.00191 *5*; α(P)=0.000203 *30* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (8.96 min)).
		754.6[#] *2*	100[#] *6*	964.40	11/2$^-$	E1		0.00438 *6*	α(K)=0.00364 *5*; α(L)=0.000571 *8*; α(M)=0.0001324 *19* α(N)=3.37×10^{-5} *5*; α(O)=6.82×10^{-6} *10*; α(P)=7.94×10^{-7} *11* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (8.96 min)). Note, that γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)) implies M1+E2 multipolarity.
1746.5	17/2$^+$	271.91[†] *20*	100[†]	1474.6	17/2$^-$	E1		0.0383 *5*	B(E1)(W.u.)=1.9×10^{-6} *+6−4* α(K)=0.0312 *4*; α(L)=0.00540 *8*; α(M)=0.001267 *18* α(N)=0.000321 *5*; α(O)=6.39×10^{-5} *9*; α(P)=7.01×10^{-6} *10* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (8.96 min)), γ(θ) and α(exp) in 1982Br21 (^{203}Tl(α,6nγ)), γ(θ) and DCO in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
1762.9		798.5[#] *3*	55[#] *5*	964.40	11/2$^-$				
		1762.9[#] *6*	100[#] *8*	0	9/2$^-$				
1778.92	(3/2$^-$,5/2)	874.6[‡] *2*	87[‡] *6*	904.23	(7/2)$^-$				
		889.2[‡] *5*	100[‡] *11*	890.24	5/2$^-$				
1817.86	1/2$^+$,3/2,5/2$^+$	543.4[‡] *3*	63[‡] *4*	1274.45	(5/2)$^+$				
		731.7[‡] *2*	65[‡] *6*	1086.21	3/2$^+$				
		971.4[‡] *3*	100[‡] *6*	846.35	1/2$^+$				
1848.16	(5/2$^-$)	944.2[‡] *4*	54[‡] *8*	904.23	(7/2)$^-$				
		1848.0[‡] *3*	100[‡] *10*	0	9/2$^-$				

$^{201}_{83}Bi_{118}$-7

Adopted Levels, Gammas (continued)

γ(^{201}Bi) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
1858.02	3/2$^+$	583.6[‡] *3*	100[‡] *6*	1274.45	(5/2)$^+$	M1+E2	1.0 *+10−5*	0.050 *17*	α(K)=0.040 *14*; α(L)=0.0076 *19*; α(M)=0.0018 *4* α(N)=0.00046 *11*; α(O)=9.3×10^{-5} *24*; α(P)=1.07×10^{-5} *31* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		771.8[‡] *2*	85[‡] *6*	1086.21	3/2$^+$	E0+M1		0.10 *3*	Mult.,α: From ^{201}Po ε decay (15.50 min).
1927.32	(5/2$^-$)	1023.0[‡] *2*	100[‡] *9*	904.23	(7/2)$^-$				
		1927.5[‡] *3*	97[‡] *11*	0	9/2$^-$				
1932.3	21/2$^+$	185.77[†] *20*	100[†]	1746.5	17/2$^+$	E2		0.583 *8*	B(E2)(W.u.)>0.57 α(K)=0.1975 *28*; α(L)=0.287 *4*; α(M)=0.0755 *11* α(N)=0.01922 *28*; α(O)=0.00358 *5*; α(P)=0.000290 *4* Mult.: From γ(θ) and α(exp) in 1982Br21 (^{203}Tl(α,6nγ)), γ(θ) and DCO in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
1932.3+x	(25/2$^+$)	(<80)		1932.3	21/2$^+$				E_γ: Anticipated in the decay of this level by analogy to ^{201}Bi and ^{205}Bi, and the non-observation of low-energy Eγ in the corresponding γ-ray spectra.
1944.24	(5/2$^-$)	1039.7[‡] *2*	75[‡] *9*	904.23	(7/2)$^-$				
		1054.7[‡] *3*	100[‡] *9*	890.24	5/2$^-$				
		1944.2[‡] *3*	100[‡] *10*	0	9/2$^-$				
1971.3+x	(27/2$^+$)	(39.0 *5*)	100	1932.3+x	(25/2$^+$)	[M1]		30.1 *12*	α(L)=22.9 *9*; α(M)=5.41 *22* α(N)=1.38 *6*; α(O)=0.282 *12*; α(P)=0.0336 *14* B(M1)(W.u.)=0.00011 *+14−5* E_γ: From level energy difference. The transition was not observed directly and the existence is based on the γγ-coincidence relationships in ^{196}Pt(^{10}B,5nγ).
2034.3		532.4[#] *6*	100[#]	1501.89	(13/2$^+$)				
2053.59	(5/2)$^+$	779.4[‡] *3*	35[‡] *3*	1274.45	(5/2)$^+$	(M1)		0.0366 *5*	α(K)=0.0300 *4*; α(L)=0.00505 *7*; α(M)=0.001181 *17* α(N)=0.000302 *4*; α(O)=6.18×10^{-5} *9*; α(P)=7.38×10^{-6} *10* Mult.: From ^{201}Po ε decay (15.50 min).
		967.4[‡] *2*	28[‡] *4*	1086.21	3/2$^+$	(E2)		0.00746 *10*	α(K)=0.00590 *8*; α(L)=0.001190 *17*; α(M)=0.000285 *4* α(N)=7.27×10^{-5} *10*; α(O)=1.456×10^{-5} *20*; α(P)=1.616×10^{-6} *23* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		1207.1[‡] *2*	100[‡] *5*	846.35	1/2$^+$	E2		0.00488 *7*	α(K)=0.00393 *6*; α(L)=0.000726 *10*; α(M)=0.0001720 *24*

$^{201}_{83}Bi_{118}$-8

Adopted Levels, Gammas (continued)

$\gamma(^{201}Bi)$ (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
									α(N)=4.39×10^{-5} *6*; α(O)=8.85×10^{-6} *12*; α(P)=1.007×10^{-6} *14*; α(IPF)=4.36×10^{-6} *6* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
2065.82	5/2$^+$	624.7‡ *3*	17.3‡ *12*	1441.71	7/2$^-$	[E1]		0.00631 *9*	α(K)=0.00523 *7*; α(L)=0.000833 *12*; α(M)=0.0001936 *27* α(N)=4.92×10^{-5} *7*; α(O)=9.95×10^{-6} *14*; α(P)=1.148×10^{-6} *16*
		791.4‡ *2*	100‡ *4*	1274.45	(5/2)$^+$	M1(+E2)	≤0.4	0.0335 *17*	α(K)=0.0274 *14*; α(L)=0.00465 *21*; α(M)=0.00109 *5* α(N)=0.000278 *12*; α(O)=5.69×10^{-5} *26*; α(P)=6.78×10^{-6} *33* Mult.,δ: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		979.7‡ *3*	31.9‡ *21*	1086.21	3/2$^+$	[M1]		0.02026 *28*	α(K)=0.01663 *23*; α(L)=0.00278 *4*; α(M)=0.000650 *9* α(N)=0.0001662 *23*; α(O)=3.40×10^{-5} *5*; α(P)=4.07×10^{-6} *6*
		1175.3‡ *2*	76‡ *4*	890.24	5/2$^-$	(E1)		1.97×10^{-3} *3*	α(K)=0.001634 *23*; α(L)=0.0002490 *35*; α(M)=5.75×10^{-5} *8* α(N)=1.465×10^{-5} *21*; α(O)=2.98×10^{-6} *4*; α(P)=3.52×10^{-7} *5*; α(IPF)=8.73×10^{-6} *13* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		1219.3‡ *3*	22.7‡ *21*	846.35	1/2$^+$	[E2]		0.00479 *7*	α(K)=0.00386 *5*; α(L)=0.000710 *10*; α(M)=0.0001683 *24* α(N)=4.29×10^{-5} *6*; α(O)=8.66×10^{-6} *12*; α(P)=9.86×10^{-7} *14*; α(IPF)=5.48×10^{-6} *8*
2299.1+x	(27/2$^+$)	366.6† *4*	100†	1932.3+x	(25/2$^+$)	(M1)		0.269 *4*	α(K)=0.2196 *31*; α(L)=0.0378 *5*; α(M)=0.00887 *13* α(N)=0.002267 *32*; α(O)=0.000463 *7*; α(P)=5.52×10^{-5} *8* Mult.: From DCO in 1985Pi05 (^{196}Pt(^{10}B,5nγ)) and $\gamma(\theta)$ in 1982Br21 (^{203}Tl(α,6nγ)).
2386.7		1300.5‡ *4*	100‡	1086.21	3/2$^+$				
2422.1	(3/2$^-$,5/2)	1518.2‡ *4*	100‡ *6*	904.23	(7/2)$^-$				
		1531.7‡ *3*	26‡ *5*	890.24	5/2$^-$				

$^{201}_{83}Bi_{118}$-9

Adopted Levels, Gammas (continued)

γ(^{201}Bi) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
2434.9	1/2$^+$,3/2,5/2$^+$	1160.6[‡] *5*	64[‡] *8*	1274.45	(5/2)$^+$				
		1348.4[‡] *6*	100[‡] *10*	1086.21	3/2$^+$				
		1588.5[‡] *3*	69[‡] *10*	846.35	1/2$^+$				
2455.5	1/2$^+$,3/2,5/2$^+$	1181.3[‡] *5*	27[‡] *5*	1274.45	(5/2)$^+$				
		1369.3[‡] *4*	100[‡] *8*	1086.21	3/2$^+$			0.005 *4*	α(K)=0.004 *3*; α(L)=0.0007 *6* Mult.: From α(K)exp in 1986Br28 (^{201}Po ε decay (15.50 min)).
		1609.0[‡] *3*	98[‡] *8*	846.35	1/2$^+$				
2484.3	1/2,3/2,5/2$^+$	1398.0[‡] *3*	100[‡] *6*	1086.21	3/2$^+$				
		1638.1[‡] *5*	29[‡] *4*	846.35	1/2$^+$				
2549.50+x	(27/2$^+$)	250.2[†] *4*	4.37[†] *25*	2299.1+x	(27/2$^+$)	M1+E2	>1.2	0.32 *11*	α(K)=0.21 *11*; α(L)=0.088 *5*; α(M)=0.0224 *8* α(N)=0.00571 *22*; α(O)=0.00110 *6*; α(P)=0.000102 *14* Mult.,δ: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
		617.27[†] *25*	100.0[†] *9*	1932.3+x	(25/2$^+$)	M1+E2	+0.046 *28*	0.0671 *10*	α(K)=0.0550 *8*; α(L)=0.00931 *13*; α(M)=0.002183 *31* α(N)=0.000558 *8*; α(O)=0.0001141 *16*; α(P)=1.362×10^{-5} *19* Mult.,δ: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
2589.7+x		657.4[†] *3*	100[†]	1932.3+x	(25/2$^+$)				
2592.88	(3/2$^-$,5/2$^+$)	1318.0[‡] *5*	37[‡] *5*	1274.45	(5/2)$^+$				
		1506.6[‡] *3*	62[‡] *6*	1086.21	3/2$^+$				
		1689.3[‡] *3*	54[‡] *6*	904.23	(7/2)$^-$				
		1702.1[‡] *3*	100[‡] *6*	890.24	5/2$^-$				
		1746.8[‡] *5*	44[‡] *6*	846.35	1/2$^+$				
2612.00+x	(27/2)	679.7 *1*	100	1932.3+x	(25/2$^+$)	D			E_γ,I_γ: From ^{203}Tl(α,6nγ). Mult.: A_2=−0.47 *3*, A_4=−0.06 *4* in ^{203}Tl(α,6nγ).
2651.13+x	(29/2$^+$)	679.8[†] *3*	100[†]	1971.3+x	(27/2$^+$)	M1+E2	−0.15 *12*	0.0514 *18*	α(K)=0.0421 *16*; α(L)=0.00713 *22*; α(M)=0.00167 *5* α(N)=0.000427 *13*; α(O)=8.74×10^{-5} *27*; α(P)=1.042×10^{-5} *35* Mult.,δ: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).

$^{201}_{83}Bi_{118}$-10

Adopted Levels, Gammas (continued)

γ(^{201}Bi) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
2668.31+x	(29/2$^+$)	118.81[†] *15*	52[†] *3*	2549.50+x	(27/2$^+$)	M1(+E2)		4.8 *15*	α(K)=2.8 *23*; α(L)=1.5 *6*; α(M)=0.38 *17* α(N)=0.10 *4*; α(O)=0.019 *8*; α(P)=0.0017 *4* Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
		736.0[†] *4*	100[†] *5*	1932.3+x	(25/2$^+$)	E2		0.01296 *18*	α(K)=0.00989 *14*; α(L)=0.002324 *33*; α(M)=0.000566 *8* α(N)=0.0001443 *20*; α(O)=2.86×10^{-5} *4*; α(P)=3.04×10^{-6} *4* Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
2740.01+x	(29/2$^-$)	(71.7 *3*)		2668.31+x	(29/2$^+$)				E_γ: From E(level) difference.
		88.88[†] *12*	93[†] *27*	2651.13+x	(29/2$^+$)	[E1]		0.1292 *19*	α(L)=0.0987 *14*; α(M)=0.02341 *34* α(N)=0.00588 *9*; α(O)=0.001128 *16*; α(P)=0.0001113 *16* B(E1)(W.u.)<8.6×10^{-7}
		128[a] *1*		2612.00+x	(27/2)				E_γ: From 1982Br21 in ^{203}Tl(α,6nγ).
		150.5[†] *6*	10.9[†] *7*	2589.7+x		D			α(K)=0.131 *4*; α(L)=0.0245 *8*; α(M)=0.00576 *18*; α(N+..)=0.00187 *6* Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
		190.49[†] *25*	100.0[†] *12*	2549.50+x	(27/2$^+$)	(E1)		0.0901 *13*	B(E1)(W.u.)<9.0×10^{-8} α(K)=0.0729 *10*; α(L)=0.01318 *19*; α(M)=0.00310 *4* α(N)=0.000784 *11*; α(O)=0.0001546 *22*; α(P)=1.651×10^{-5} *24* Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)) and 1982Br21 (^{203}Tl(α,6nγ)).
		440.9[†] *4*	60.8[†] *14*	2299.1+x	(27/2$^+$)	(E1)		0.01292 *18*	B(E1)(W.u.)≤4.4×10^{-9} α(K)=0.01063 *15*; α(L)=0.001749 *25*; α(M)=0.000408 *6* α(N)=0.0001037 *15*; α(O)=2.083×10^{-5} *29*; α(P)=2.360×10^{-6} *33* Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
2902.09	1/2$^+$,3/2,5/2$^+$	1627.7[‡] *3*	100[‡] *11*	1274.45	(5/2)$^+$				
		1815.8[‡] *4*	50[‡] *9*	1086.21	3/2$^+$				
		2055.7[‡] *3*	20[‡] *6*	846.35	1/2$^+$				
2905.9	1/2,3/2,5/2$^+$	1819.8[‡] *3*	83[‡] *20*	1086.21	3/2$^+$				
		2059.4[‡] *3*	100[‡] *16*	846.35	1/2$^+$				
2994.7+x		1062.4[†] *8*	100[†]	1932.3+x	(25/2$^+$)				
3011.5+x		421.8[†] *5*	100[†] *16*	2589.7+x					
		462.2[†] *8*	60[†] *16*	2549.50+x	(27/2$^+$)				

$^{201}_{83}Bi_{118}$-11

Adopted Levels, Gammas (continued)

γ(^{201}Bi) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α[&]	Comments
3238.9+x	(31/2$^-$)	498.95[†@] *25*	100[†]	2740.01+x	(29/2$^-$)	M1+E2	−0.33 *11*	0.109 *6*	α(K)=0.089 *5*; α(L)=0.0155 *6*; α(M)=0.00365 *14* α(N)=0.00093 *4*; α(O)=0.000190 *8*; α(P)=2.25×10^{-5} *10* Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)) and 1982Br21 (^{203}Tl(α,6nγ)). δ: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
3422.9+x		428.2[†] *4*	100[†]	2994.7+x					
3526.5+x	(33/2$^-$)	287.3[†] *4*	26[†] *4*	3238.9+x	(31/2$^-$)	[M1]		0.522 *8*	α(K)=0.426 *6*; α(L)=0.0736 *11*; α(M)=0.01730 *25* α(N)=0.00443 *6*; α(O)=0.000904 *13*; α(P)=0.0001077 *16*
		786.3[†@] *3*	100.0[†] *14*	2740.01+x	(29/2$^-$)	(E2)		0.01130 *16*	α(K)=0.00871 *12*; α(L)=0.001963 *28*; α(M)=0.000476 *7* α(N)=0.0001214 *17*; α(O)=2.411×10^{-5} *34*; α(P)=2.60×10^{-6} *4* Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
3592.3+x?		169.4[†] *4*	100[†]	3422.9+x		M1(+E2)		1.5 *7*	α(K)=1.0 *8*; α(L)=0.38 *5*; α(M)=0.094 *19* α(N)=0.024 *5*; α(O)=0.0047 *7*; α(P)=0.000450 *23* Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
3638.4+x		987.3[†] *4*	100[†]	2651.13+x	(29/2$^+$)				
3706.7+x		180.0[†] *5*	100[†] *6*	3526.5+x	(33/2$^-$)	D			Mult.: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
		468.0[†] *4*	98[†] *49*	3238.9+x	(31/2$^-$)				
3727.61+x	(33/2$^-$)	987.6 *1*	100	2740.01+x	(29/2$^-$)	E2		0.00717 *10*	α(K)=0.00568 *8*; α(L)=0.001134 *16*; α(M)=0.000271 *4* α(N)=6.92×10^{-5} *10*; α(O)=1.387×10^{-5} *19*; α(P)=1.544×10^{-6} *22* E_γ,I_γ: From ^{203}Tl(α,6nγ). Mult.: From A_2=+0.31 *5*, A_4=−0.01 *5* (^{203}Tl(α,6nγ)).
3810.8+x	(33/2$^-$)	284.19[†] *25*	100.0[†] *22*	3526.5+x	(33/2$^-$)	M1(+E2)	≤0.58	0.49 *5*	α(K)=0.39 *5*; α(L)=0.0727 *34*; α(M)=0.0172 *7* α(N)=0.00440 *17*; α(O)=0.00089 *4*; α(P)=0.000104 *7* Mult.,δ: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
		572.4[†] *4*	19.6[†] *17*	3238.9+x	(31/2$^-$)	M1+E2	−0.41 *11*	0.073 *4*	α(K)=0.060 *4*; α(L)=0.0104 *5*; α(M)=0.00245 *11* α(N)=0.000627 *28*; α(O)=0.000128 *6*; α(P)=1.51×10^{-5} *8* Mult.,δ: From γ(θ) in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
3922.9+x	(35/2$^-$)	396.4[†] *4*	100[†]	3526.5+x	(33/2$^-$)	M1+E2	−0.24 *11*	0.209 *9*	α(K)=0.170 *8*; α(L)=0.0297 *10*; α(M)=0.00698 *21* α(N)=0.00179 *5*; α(O)=0.000364 *12*;

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Adopted Levels, Gammas (continued)

$\gamma(^{201}Bi)$ (continued)

E_i(level)	E_γ	I_γ	E_f	J_f^π	Mult.	Comments
						α(P)=4.32×10^{-5} *16* Mult.,δ: From $\gamma(\theta)$ in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
4075.3+x?	152.4[†] *4*	100[†]	3922.9+x	(35/2$^-$)	D	Mult.: From $\gamma(\theta)$ in 1985Pi05 (^{196}Pt(^{10}B,5nγ)).
4484.5+x	846.1[†] *7*	100[†]	3638.4+x			
5282.3+x	797.8[†] *4*	100[†]	4484.5+x			

[†] From ^{196}Pt(^{10}B,5nγ).
[‡] From 1986Br28 in ^{201}Po ε decay (15.50 min).
[#] From 1986Br28 in ^{201}Po ε decay (8.96 min).
[@] Reported by 1985Pi05 to have a delayed component with $T_{1/2}$=14 ns *3*. Similar delayed component ($T_{1/2}$>10 ns) is reported in 1982Br21 above the 3812+X keV level.
[&] Additional information 2.
[*a*] Placement of transition in the level scheme is uncertain.

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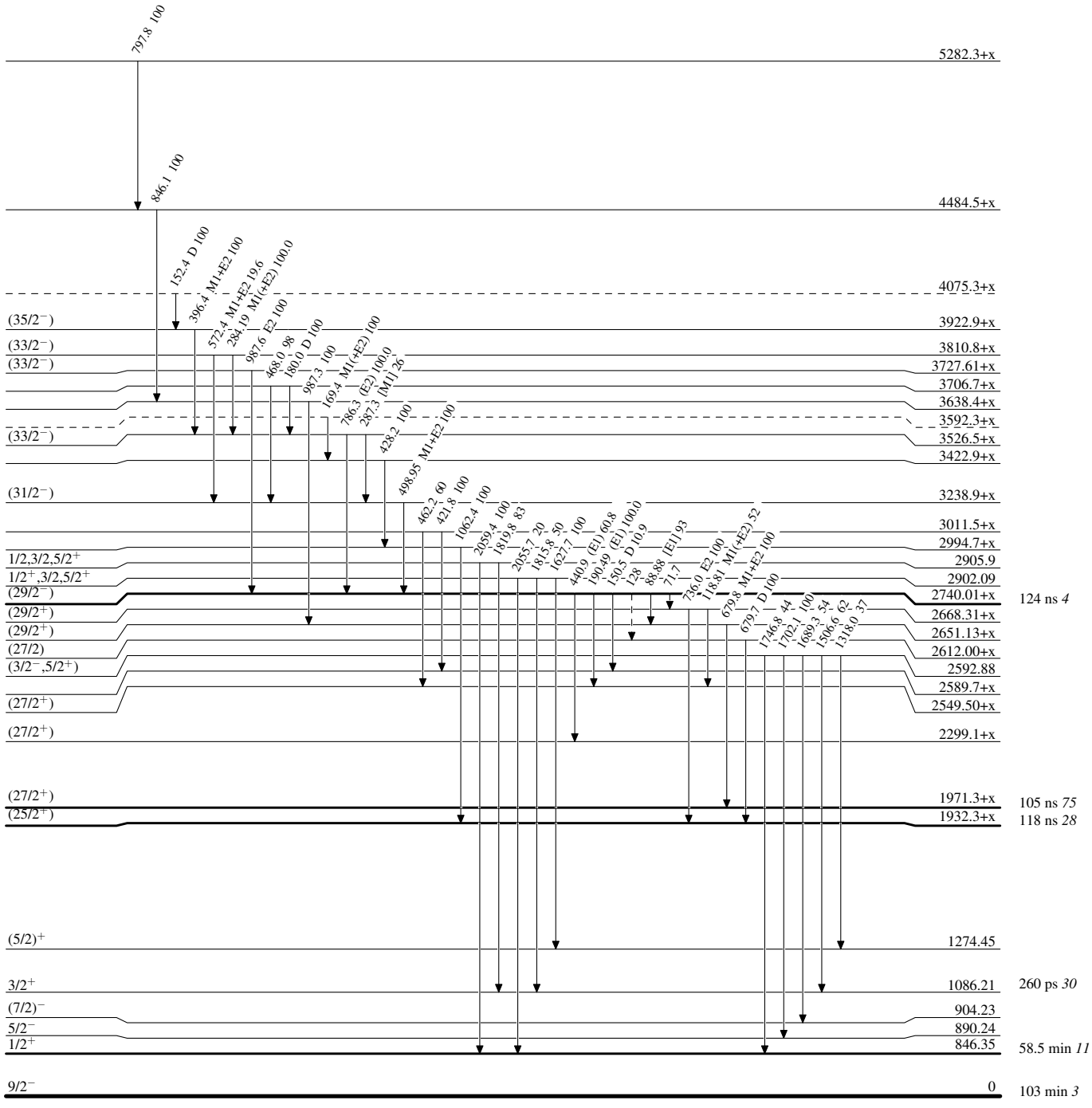
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



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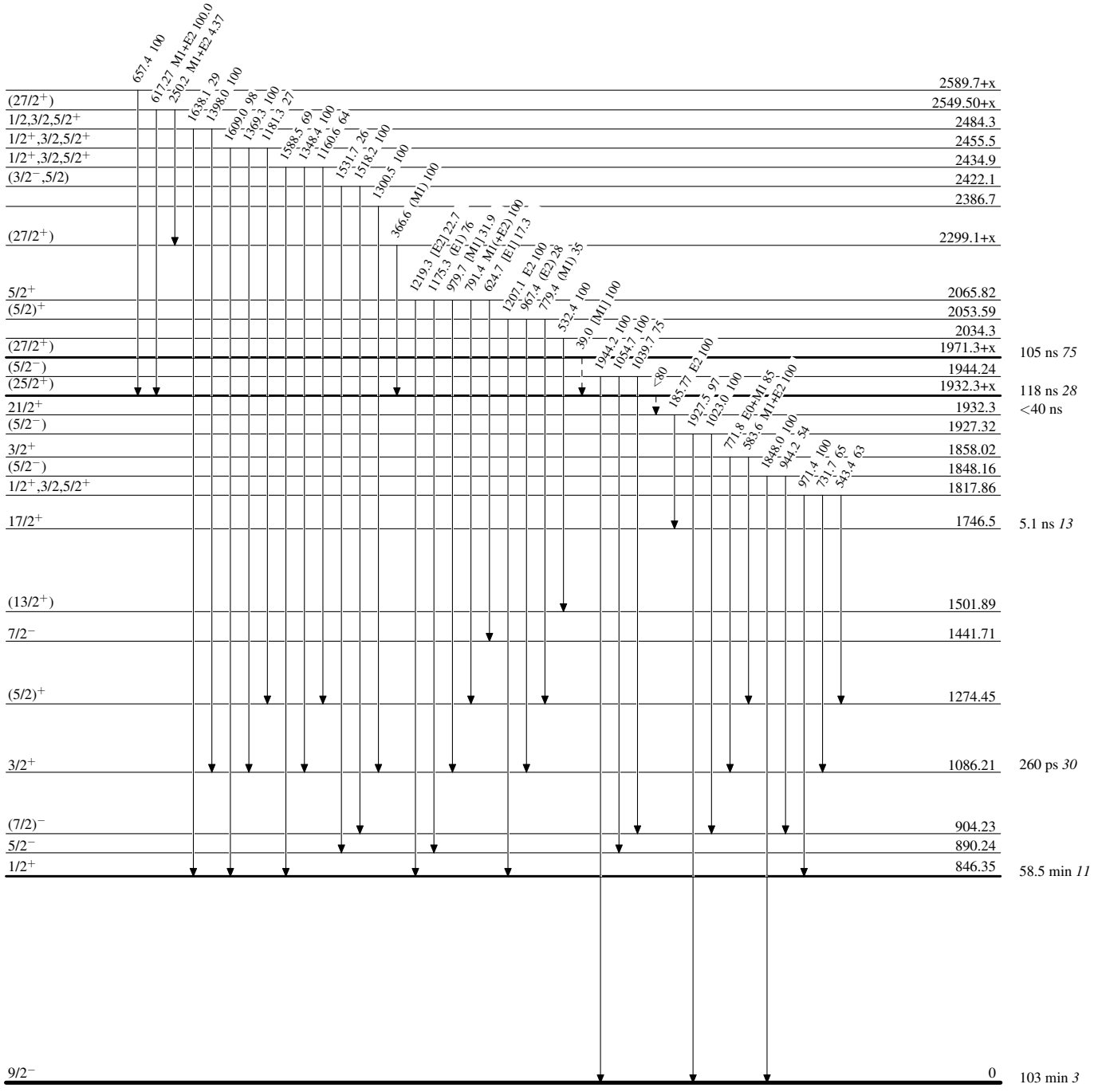
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



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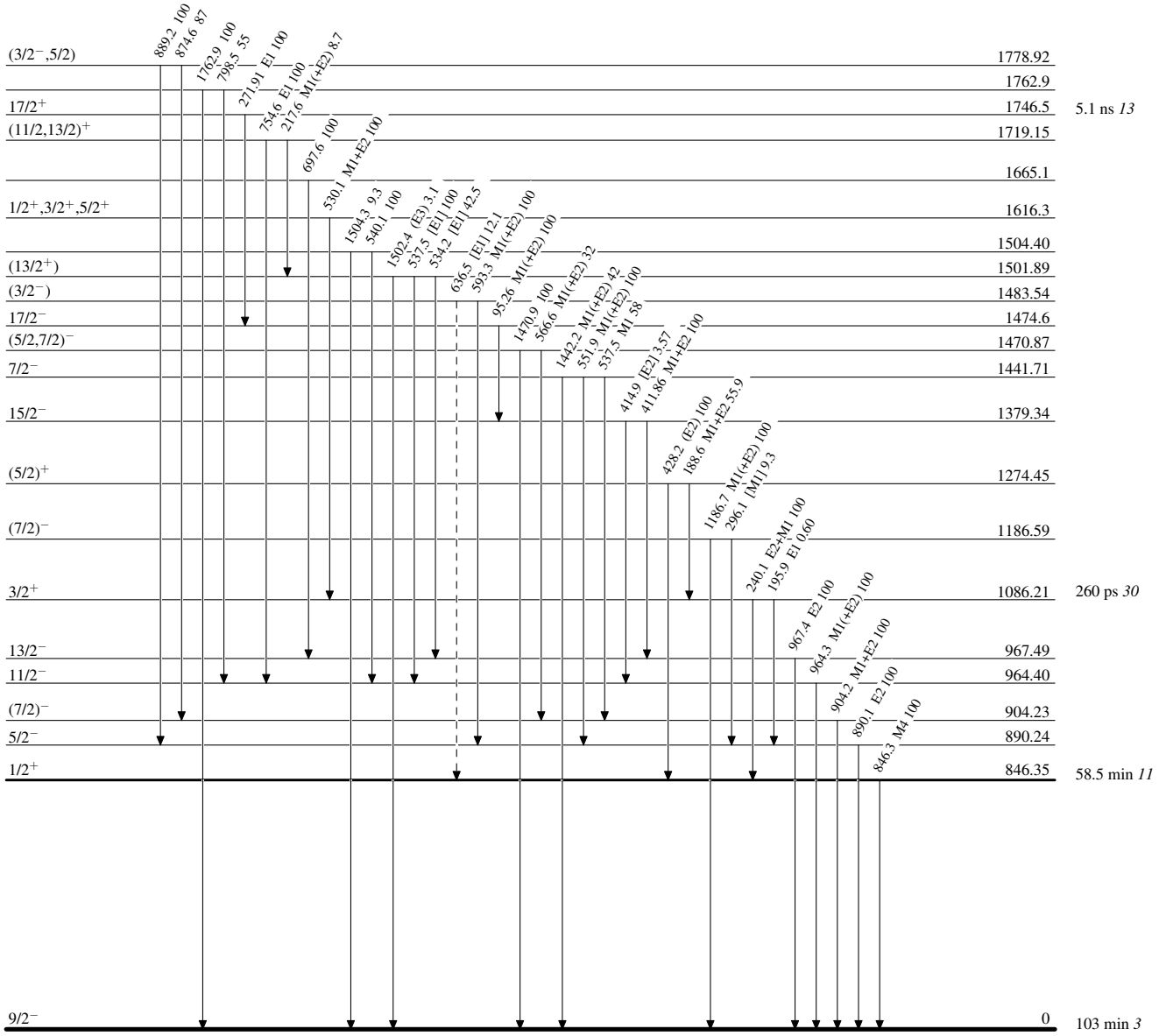
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



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