Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 177, 509, 2021	4-Jul-2021

Q(β^-)=−4214 *14*; S(n)=8845 *19*; S(p)=2873 *13*; Q(α)=4110 *30* 2021Wa16

^{203}Bi Levels

Cross Reference (XREF) Flags

A	^{203}Bi IT decay	D	^{203}Tl(^{3}He,3nγ)
B	^{203}Po ε decay	E	^{203}Tl(α,4nγ)
C	^{207}At α decay	F	^{198}Pt(^{11}B,6nγ)

E(level)[†]	J$^\pi$[#]	T$_{1/2}$	XREF	Comments
0[@]	9/2$^-$	11.76 h *5*	ABCDE	%ε+%β^+=100 Q=−0.93 *7*; μ=+3.999 *13* J$^\pi$: atomic beam (1959Li50), π from μ. T$_{1/2}$: From 1960St21. Others: 11.5 h *10* (1958Fr53), 12.3 h *7* (1956St05) and 12 h *1* (1950Ne77). μ: Recommended in 2019StZV. μ=+4.017 *13* in 1996Ca02 using the gas cell laser spectroscopy technique. Q: using gas cell laser spectroscopy technique (2001Bi23,2016St14); Others: −0.67 *7* (1996Ca02) and −0.68 *6* (1959Li50). δ<r^2>(203,209)=2.77 *7* in relative units (1995Ca11).
883.35[&] *16*	11/2$^-$		B DE	J$^\pi$: 883.4γ M1+E2 to 9/2$^-$; no direct feeding in ^{203}Po ε decay (J^π=5/2$^-$).
893.54[&] *8*	5/2$^-$		AB D	J$^\pi$: 893.5γ E2 to 9/2$^-$; direct feeding in ^{203}Po ε decay (J^π=5/2$^-$).
908.73[&] *7*	7/2$^-$		AB D	J$^\pi$: 908.6γ M1+E2 to 9/2$^-$.
932.53[&] *18*	13/2$^-$		DE	J$^\pi$: 932.5γ E2 to 9/2$^-$; no direct feeding in ^{203}Po ε decay (J^π=5/2$^-$).
1090.99[b] *7*	7/2$^-$		B D	J$^\pi$: 197.4γ M1+E2 to 5/2$^-$, 1090.9γ M1+E2 to 9/2$^-$.
1098.21 *9*	1/2$^+$	305 ms *5*	AB D	%IT=100 J$^\pi$: 189.5γ E3 to 7/2$^-$; 204.7γ M2(+E3) to 5/2$^-$. T$_{1/2}$: Weighted average of 311 ms *13* (189.5γ(t)), 320 ms *50* (204.7γ(t)), 290 ms *30* (893.5γ(t)) and 304 ms *5* (908.6γ(t)) in 1984Lo16. configuration: Dominant (99.9%) configuration=$\pi(s_{1/2}^{+1})$ with small admixtures of configuration=$\pi(f_{7/2})^{+1})\otimes\nu(3^-)$ and configuration=$\pi(h_{9/2})^{+1}\otimes\nu(5^-)$ (1984Lo16).
1123.72 *8*	(7/2)$^-$		B D	J$^\pi$: 214.8γ M1+E2 to 7/2$^-$, 240.4γ (E2) to 11/2$^-$; strong direct feeding in ^{203}Po ε decay (J^π=5/2$^-$). Note, that J^π=9/2$^-$ was assigned in ^{203}Tl(^{3}He,3nγ).
1231.4 *4*	9/2$^-$		D	J$^\pi$: 140.2γ M1+E2 to 7/2$^-$; 348.2γ M1+E2 to 11/2$^-$.
1247.85[a] *21*	15/2$^-$		DE	J$^\pi$: 315.3γ M1+E2 to 13/2$^-$; 364.4γ to 11/2$^-$.
1248.53[a] *21*	13/2$^-$		DE	J$^\pi$: $\gamma(\theta)$ in (α,4nγ), M1 to 11/2$^-$.
1277.16 *19*	(7/2)$^-$		B D	J$^\pi$: 186.5γ M1(+E2) to 7/2$^-$; 1277.5γ M1(+E2) to 9/2$^-$; direct feeding in ^{203}Po ε decay (J^π=5/2$^-$).
1298.9 *5*	(7/2,9/2,11/2)$^-$		D	J$^\pi$: 175.2γ M1(+E2) to 9/2$^-$.
1312.98[c] *9*	3/2$^+$	410 ps *30*	B D	J$^\pi$: 214.8γ M1+E2 to 1/2$^+$; 419.3γ E1 to 5/2$^-$. T$_{1/2}$: From 175ce(K)−215ce(K)(Δt) in ^{203}Po ε decay (1986Be07).
1352.85 *8*	7/2$^-$		B D	J$^\pi$: 261.8γ M1+E2 to 7/2$^-$; 1352.8γ M1 to 9/2$^-$; direct feeding in ^{203}Po ε decay (J^π=5/2$^-$).
1408.9 *6*	13/2$^-$		D	J$^\pi$: 161.0γ M1(+E2) to 15/2$^-$.
1479.3 *5*	(5/2$^-$,7/2$^-$,9/2$^-$)		D	J$^\pi$: 126.5γ M1(+E2) to 7/2$^-$.

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Adopted Levels, Gammas (continued)

^{203}Bi Levels (continued)

E(level)[†]	J$^{\pi}$[#]	$T_{1/2}$	XREF	Comments
1483.4 *6*	(13/2)$^-$		D	J$^{\pi}$: 235.5γ M1+E2 to 13/2$^-$.
1488.14[d] *10*	5/2$^+$		B	J$^{\pi}$: 175.2γ M1(+E2) to 3/2$^+$; 389.9γ E2 to 1/2$^+$.
1494.5 *6*	(15/2$^-$)		D	J$^{\pi}$: 246.6γ (M1) to 15/2$^-$.
1499.04 *24*	(17/2$^-$)		DE	J$^{\pi}$: 250.5γ to 13/2$^-$; 251.4γ to 15/2$^-$.
1561.1[e] *6*	13/2$^+$		D	J$^{\pi}$: 677.7γ E1 to 11/2$^-$.
1575.6 *6*	(17/2)$^-$		D	J$^{\pi}$: 327.7γ M1+E2 to 15/2$^-$.
1609.82 *13*	(5/2)$^-$		B D	J$^{\pi}$: 486.1γ E2 to 9/2$^-$; direct feeding in ^{203}Po ε decay (J^{π}=5/2$^-$).
1672.68 *25*	15/2$^-$		DE	J$^{\pi}$: 424.2γ M1(+E2) to 13/2$^-$.
1714.4 *5*	(9/2)$^-$		D	J$^{\pi}$: 361.6γ M1(+E2) to 7/2$^-$; non observation in ^{203}Po ε decay (J^{π}=5/2$^-$) would argue against J^{π}=5/2$^-$ and 7/2$^-$.
1892.6[f] *6*	13/2$^+$		D	J$^{\pi}$: 1009.2γ E1 to 11/2$^-$.
1903.52[f] *23*	17/2$^+$		DE	J$^{\pi}$: 404.5γ E1 to 17/2$^-$, 655.6γ E1 to 15/2$^-$.
1990.6[f] *3*	21/2$^+$	90 ns *7*	DE	μ=2.793 *42* J$^{\pi}$: 87.1γ E2 to 17/2$^+$. $T_{1/2}$: Using 655.6γ(t) and 883.4γ(t) in ^{203}Tl(^{3}He,3nγ) (1982Lo14). Other: 90 ns *26* in ^{203}Tl(α,4nγ) (1978Hu02) using a two isomers fit to ceγ(t) spectra. μ: From g-factor=0.266 *4* in ^{203}Tl(α,4nγ) (1982Hu07,2014StZZ) deduced using γ(t) spectra produced by gating on 315γ, 883γ and 932γ that occur in decay of both the 21/2$^+$ isomer and the 25/2$^+$ isomer at 2042 keV.
2028.6? *10*			D	
2041.5[f] *6*	25/2$^+$	194 ns *30*	E	μ=3.33 *5* J$^{\pi}$: 50.9γ E2 to 21/2$^+$. $T_{1/2}$: From ^{203}Tl(α,4nγ) (1978Hu02) using a two isomers fit to ceγ(t) spectra. μ: From g-factor=0.266 *4* in ^{203}Tl(α,4nγ) (1982Hu07,2014StZZ).
2088.1 *6*	(21/2$^+$)		D	J$^{\pi}$: 184.6γ (E2) to 17/2$^+$.
2135.89 *10*	(3/2,5/2)$^+$		B	J$^{\pi}$: 822.9γ M1(+E2) to 3/2$^+$, 1037.7γ to 1/2$^+$, 1242.4γ E1 to 5/2$^-$; direct feeding in ^{203}Po ε decay (J^{π}=5/2$^-$).
2231.16 *11*	(3/2,5/2)$^+$		B	J$^{\pi}$: 743.0γ M1(+E2) to 5/2$^+$, 1133.1γ to 1/2$^+$; direct feeding in ^{203}Po ε decay (J^{π}=5/2$^-$).
2287.06? *12*	(3/2,5/2$^+$)		B	J$^{\pi}$: 799.0γ to 5/2$^+$; 973.9γ to 3/2$^+$; 1188.7γ to 1/2$^+$; direct feeding in ^{203}Po ε decay (J^{π}=5/2$^-$).
2566.72? *14*	(3/2$^-$,5/2,7/2)		B	J$^{\pi}$: 1475.7γ to 7/2$^-$, 1673.0γ to 5/2$^-$; direct feeding in ^{203}Po ε decay (J^{π}=5/2$^-$).
2689.45? *10*	(3/2$^-$,5/2,7/2)		B	J$^{\pi}$: 1201.6γ to 5/2$^+$, 1780.7γ to 7/2$^-$; direct feeding in ^{203}Po ε decay (J^{π}=5/2$^-$).
2731.0[f] *6*	27/2$^+$		E	J$^{\pi}$: 689.6γ M1+E2 to 25/2$^+$.
2752.14 *14*	(3/2,5/2,7/2)		B	J$^{\pi}$: 1264.0γ to 5/2$^+$; direct feeding in ^{203}Po ε decay (J^{π}=5/2$^-$).
2855.4 *6*	27/2$^+$		E	J$^{\pi}$: 813.7γ M1 to 25/2$^+$.
3032.2[g] *7*	29/2$^-$	22.4 ns *9*	E	J$^{\pi}$: 301.3γ E1 to 27/2$^+$. $T_{1/2}$: Weighted average of 19.1 ns *20* (301γ(t)), 23.3 ns *10* (689γ(t)) and 22.0 ns *20* (814γ(t)) in ^{203}Tl(α,4nγ) (1978Hu02).
3130.52 *17*	(3/2,5/2$^+$)		B	J$^{\pi}$: 1817.5γ to 3/2$^+$; 2032.5γ to 1/2$^+$; 2236.9γ to 5/2$^-$; direct feeding in ^{203}Po ε decay (J^{π}=5/2$^-$).
3529.7[g] *7*	31/2$^-$		EF	J$^{\pi}$: 497.5γ M1 to 29/2$^-$.
3529.7+x[‡]			F	Additional information 1.
3704.7+x[‡] *10*			F	
3826.0[g] *7*	33/2$^-$		E	J$^{\pi}$: 296.3γ M1 to 31/2$^-$.
3950.7+x[‡] *15*			F	
4288.7+x[‡] *18*			F	

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Adopted Levels, Gammas (continued)

^{203}Bi Levels (continued)

E(level)[†]	J$^{\pi}$[#]	$T_{1/2}$	XREF	Comments
4470.1 *7*	$35/2^-$		E	J$^{\pi}$: 644.1γ M1 to $33/2^-$.
4544.3 *9*	$(37/2)^-$	4.13 ns *7*	E	J$^{\pi}$: 74.2γ M1 to $35/2^-$. $T_{1/2}$: Weighted average of 4.03 ns *10* (296γ(t)), 4.21 ns *10* (498γ(t)) and 4.21 ns *20* (644γ(t)) in ^{203}Tl(α,4nγ) (1978Hu02).
4730.7+x[‡] *20*			F	
5247.7+x[‡] *23*			F	
5824.7+x[‡] *25*			F	

[†] From a least-squares fit to Eγ, unless otherwise stated.
[‡] From ^{198}Pt(^{11}B,6nγ).
[#] From deduced transition multipolarities in ^{203}Po ε decay, ^{203}Tl(^{3}He,3nγ) and ^{203}Tl(α,4nγ), and multiple decay branches. Specific details are given with each level.
[@] Configuration=$\pi(h^{+1}_{9/2})$.
[&] Dominant configuration=$\pi(h^{+1}_{9/2})\otimes 2^+$.
[a] Dominant configuration=$\pi(h^{+1}_{9/2})\otimes 4^+$.
[b] Dominant configuration=$\pi(f^{+1}_{7/2})$.
[c] Dominant configuration=$\pi(d^{+1}_{3/2})$.
[d] Dominant configuration=$\pi(d^{+1}_{5/2})$.
[e] Dominant configuration=$\pi(i^{+1}_{13/2})$.
[f] Configuration=$\pi(h^{+1}_{9/2})\otimes \nu(f^{-1}_{5/2},i^{-1}_{13/2})_{4^-}$.
[g] Configuration=$\pi(h^{+1}_{9/2})\otimes\nu(i^{-2}_{13/2})$.

Adopted Levels, Gammas (continued)

γ(^{203}Bi)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	δ[†]	α[a]	Comments
883.35	11/2$^-$	883.4[#] *2*	100[#]	0	9/2$^-$	M1+E2	−0.2	0.0258	α(K)=0.0211 *3*; α(L)=0.00355 *5*; α(M)=0.000832 *12* α(N)=0.000213 *3*; α(O)=4.35×10^{-5} *6*; α(P)=5.19×10^{-6} *8* Mult.: α(K)exp=0.018, A_2=−0.55 *2* in ^{203}Tl(α,4nγ) and α(K)exp=0.021, K/L=4.8, A_2=−0.40 *13*, A_4=0.04 *20* in ^{203}Tl(^{3}He,3nγ). δ: From γ(θ) in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
893.54	5/2$^-$	893.5 *1*	100	0	9/2$^-$	E2		0.00873	α(K)=0.00684 *10*; α(L)=0.001434 *20*; α(M)=0.000345 *5* α(N)=8.80×10^{-5} *13*; α(O)=1.758×10^{-5} *25*; α(P)=1.93×10^{-6} *3* Mult.: α(K)exp=0.0076 *20* in ^{203}Po ε decay (1972Al25); α(K)exp=0.006, A_2=0.01 *40*, A_4=0.04 *60* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
908.73	7/2$^-$	908.6 *1*	100	0	9/2$^-$	M1+E2	0.96 *20*	0.0169 *19*	α(K)=0.0137 *16*; α(L)=0.00242 *23*; α(M)=0.00057 *6* α(N)=0.000146 *14*; α(O)=3.0×10^{-5} *3*; α(P)=3.5×10^{-6} *4* Mult.,δ: α(K)exp=0.017 *2* (1972Al25), α(K)exp=0.013 *1*, K/L=5 (1969Al10) in ^{203}Po ε decay; Other: α(K)exp=0.013, K/L=6.5, A_2=−0.07 *10*, A_4=0.36 *15* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
932.53	13/2$^-$	932.5[#] *2*	100[#]	0	9/2$^-$	E2		0.00802	α(K)=0.00632 *9*; α(L)=0.001296 *19*; α(M)=0.000311 *5* α(N)=7.94×10^{-5} *12*; α(O)=1.587×10^{-5} *23*; α(P)=1.753×10^{-6} *25* Mult.: α(K)exp=0.0064, K/L≤6, A_2=0.25 *32*, A_4=0.004 *50* in ^{203}Tl(^{3}He,3nγ) (1982Lo14); A_2=+0.21 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
1090.99	7/2$^-$	182.3 *1*	0.6 *3*	908.73	7/2$^-$	M1		1.85	α(K)=1.506 *22*; α(L)=0.262 *4*; α(M)=0.0617 *9* α(N)=0.01579 *23*; α(O)=0.00323 *5*; α(P)=0.000384 *6* Mult.: α(K)exp in ^{203}Po ε decay.
		197.4 *2*	2.9 *9*	893.54	5/2$^-$	M1+E2	−0.3	1.396	α(K)=1.120 *16*; α(L)=0.211 *3*; α(M)=0.0500 *8* α(N)=0.01279 *19*; α(O)=0.00259 *4*; α(P)=0.000300 *5* Mult.: α(K)exp=1.9 *2* (1972Al25); α(K)exp=1.8 *3* (1969Al10) in ^{203}Po ε decay; α(L)exp≤0.3, A_2=0.1 *6*, A_4=−0.0 *8* in ^{203}Tl(^{3}He,3nγ) (1982Lo14). δ: From ^{203}Tl(^{3}He,3nγ) (1982Lo14).
		1090.9 *1*	100 *6*	0	9/2$^-$	M1+E2	0.51 *22*	0.0134 *14*	α(K)=0.0110 *12*; α(L)=0.00186 *17*; α(M)=0.00043 *4* α(N)=0.000111 *10*; α(O)=2.27×10^{-5} *21*; α(P)=2.7×10^{-6} *3* Mult.,δ: From a(K)exp=0.011 *1* in ^{203}Po ε decay (1969Al10). Others: α(K)exp=0.0019 *6* in ^{203}Po ε decay (1972Al25) and α(K)exp=0.012, A_2=−0.041 *16*, A_4=0.03 *3* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1098.21	1/2$^+$	189.5 *1*	100[&] *9*	908.73	7/2$^-$	E3		5.63	α(K)=0.473 *7*; α(L)=3.79 *6*; α(M)=1.050 *15* α(N)=0.270 *4*; α(O)=0.0501 *8*; α(P)=0.00397 *6* B(E3)(W.u.)=0.0254 *9* Mult.: α(K)exp=0.49 *5* (1972Al25), α(K)exp=0.47 *4* (1969Al10) in ^{203}Po ε decay; α(L)exp=3.2 in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
		204.7 *1*	13[&] *4*	893.54	5/2$^-$	M2+E3	3.4 *4*	4.04 *8*	α(K)=0.74 *9*; α(L)=2.43 *5*; α(M)=0.668 *12*

$^{203}_{83}Bi_{120}$-4

Adopted Levels, Gammas (continued)

γ(^{203}Bi) (continued)

E_i(level)	J_i^π	E_γ [†]	I_γ [†]	E_f	J_f^π	Mult.	δ [†]	α [a]	Comments
									α(N)=0.171 *3*; α(O)=0.0320 *6*; α(P)=0.00260 *4* B(M2)(W.u.)=1.16×10^{-8} *+47−38*; B(E3)(W.u.)=0.0018 *5* Mult.,δ: α(K)exp=0.8 *3* (1972Al25), α(K)exp=0.75 *6*, K/L=0.3 (1969Al10) in ^{203}Po ε decay. Other: A_2=0.2 *8*, A_4=−0.0 *2* and α(L)exp=0.43, but the latter value is inconsistent with the assigned multipolarity in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1098.21	1/2$^+$	1098.1[b] *5*	≤0.10[&]	0	9/2$^-$	[M4]		0.1210	α(K)=0.0905 *13*; α(L)=0.0230 *4*; α(M)=0.00570 *8* α(N)=0.001471 *21*; α(O)=0.000297 *5*; α(P)=3.35×10^{-5} *5*
1123.72	(7/2)$^-$	214.8 *1*	100 *8*	908.73	7/2$^-$	M1+E2	3.9 *1*	0.401 *7*	α(K)=0.193 *4*; α(L)=0.1557 *22*; α(M)=0.0405 *6* α(N)=0.01032 *15*; α(O)=0.00194 *3*; α(P)=0.0001653 *24* Mult.,δ: α(K)exp=0.21 *2* (1972Al25), α(K)exp=0.18 *2*, K/L=1.2 (1969Al10) in ^{203}Po ε decay. Other: α(K)exp≤0.43, K/L≈4.3, A_2=0.06 *40*, A_4=0.1 *6* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
		240.4[‡] *5*	3.3[‡] *4*	883.35	11/2$^-$	(E2)		0.241	α(K)=0.1101 *17*; α(L)=0.0975 *16*; α(M)=0.0255 *5* α(N)=0.00648 *11*; α(O)=0.001217 *20*; α(P)=0.0001027 *17* I_γ: From Iγ(240γ)/Iγ(1124γ)=0.29 in ^{203}Tl(^{3}He,3nγ) (1982Lo14). Mult.: α(K)exp=0.34 in ^{203}Tl(^{3}He,3nγ) (1982Lo14). Note, that value is also consistent with Mult=M1+E2 with δ=1.24 *+20−17*, but the decay scheme requires Mult=E2.
		1123.9 *1*	11.2 *12*	0	9/2$^-$	M1+E2	3.6 *8*	0.0062 *4*	α(K)=0.0050 *3*; α(L)=0.00093 *5*; α(M)=0.000220 *11* α(N)=5.6×10^{-5} *3*; α(O)=1.13×10^{-5} *6*; α(P)=1.29×10^{-6} *8*; α(IPF)=4.05×10^{-7} *16* Mult.: α(K)exp=0.005. Other: A_2=0.2 *7*, A_4=0.15 *11* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1231.4	9/2$^-$	140.2[‡] *5*	75[‡]	1090.99	7/2$^-$	M1(+E2)		3.89 *7*	α(K)=3.16 *6*; α(L)=0.553 *10*; α(M)=0.1302 *23* α(N)=0.0333 *6*; α(O)=0.00681 *12*; α(P)=0.000810 *14* Mult.: α(L)exp=0.50, A_2=−0.02 *9*, A_4=0.18 *14* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
		348.2[‡] *5*	100[‡]	883.35	11/2$^-$	M1(+E2)		0.309	α(K)=0.252 *4*; α(L)=0.0435 *7*; α(M)=0.01020 *15* α(N)=0.00261 *4*; α(O)=0.000533 *8*; α(P)=6.35×10^{-5} *10* Mult.: α(K)exp=0.04, A_2=−0.05 *33*, A_4=0.3 *4* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1247.85	15/2$^-$	315.3[#] *2*	100[#]	932.53	13/2$^-$	M1+E2	−0.07	0.404	α(K)=0.329 *5*; α(L)=0.0569 *8*; α(M)=0.01337 *19* α(N)=0.00342 *5*; α(O)=0.000699 *10*; α(P)=8.31×10^{-5} *12* Mult.: α(K)exp=0.37, K/L=5.3, A_2=−0.25 *22*, A_4=−0.4 *4* in ^{203}Tl(^{3}He,3nγ) (1982Lo14); α(K)exp=0.47, A_2=−0.37 *1* in ^{203}Tl(α,4nγ) (1983Hu15). δ: From ^{203}Tl(^{3}He,3nγ) (1982Lo14).
		364.4[‡] *5*	≈7[‡]	883.35	11/2$^-$				
1248.53	13/2$^-$	365.2 *2*	100	883.35	11/2$^-$	M1		0.272	α(K)=0.222 *4*; α(L)=0.0382 *6*; α(M)=0.00896 *13*

Adopted Levels, Gammas (continued)

γ(^{203}Bi) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	δ[†]	α[a]	Comments
									α(N)=0.00229 *4*; α(O)=0.000468 *7*; α(P)=5.58×10^{-5} *8* E_γ: From ^{203}Tl(α,4nγ). I_γ: From ^{203}Tl(^{3}He,3nγ). Mult.: α(K)exp=0.21, A_2=−0.26 *2* in ^{203}Tl(α,4nγ) (1983Hu15). α(K)exp=0.26, K/L=6.5, A_2=−0.20 *45*, A_4=0.1 *6* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1248.53	13/2$^-$	1248.6[‡] *5*	19[‡]	0	9/2$^-$	E2		0.00459	α(K)=0.00369 *6*; α(L)=0.000675 *10*; α(M)=0.0001598 *23* α(N)=4.08×10^{-5} *6*; α(O)=8.23×10^{-6} *12*; α(P)=9.39×10^{-7} *14*; α(IPF)=8.61×10^{-6} *14* Mult.: α(K)exp=0.004, A_2=0.60 *11*, A_4=−0.14 *16* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1277.16	(7/2)$^-$	186.5[‡] *5*	100[‡]	1090.99	7/2$^-$	M1(+E2)	<1.5	1.3 *4*	α(K)=1.0 *5*; α(L)=0.258 *14*; α(M)=0.064 *6* α(N)=0.0162 *15*; α(O)=0.00320 *18*; α(P)=0.00033 *3* Mult.,δ: A_2=−0.21 *34*, A_4=−0.4 *5*, α(L)exp=1.2, but the latter value is too high for the proposed multipolarity, in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
		1277.1 *2*	23	0	9/2$^-$	M1(+E2)	<1.6	0.0082 *22*	α(K)=0.0067 *18*; α(L)=0.0011 *3*; α(M)=0.00026 *7* α(N)=6.7×10^{-5} *17*; α(O)=1.4×10^{-5} *4*; α(P)=1.6×10^{-6} *5*; α(IPF)=1.9×10^{-5} *4* Mult.,δ: α(K)exp=0.012 in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1298.9	(7/2,9/2,11/2)$^-$	175.2[‡] *5*	100[‡]	1123.72	(7/2)$^-$	M1(+E2)		2.07 *4*	α(K)=1.68 *3*; α(L)=0.294 *5*; α(M)=0.0690 *12* α(N)=0.0177 *3*; α(O)=0.00361 *6*; α(P)=0.000430 *7* Mult.: A_2=−0.14 *12*, A_4=−0.21 *20*, α(L)exp=1.0, but the latter value is too high for the proposed multipolarity, in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1312.98	3/2$^+$	214.8 *1*	100 *8*	1098.21	1/2$^+$	M1+E2	3.6 *+10−6*	0.409 *24*	α(K)=0.201 *24*; α(L)=0.1558 *23*; α(M)=0.0405 *6* α(N)=0.01032 *15*; α(O)=0.00194 *3*; α(P)=0.000166 *4* B(M1)(W.u.)=2.5×10^{-4} *+10−9*; B(E2)(W.u.)=25.1 *21* Mult.,δ: α(K)exp=0.21 *2* (1972Al25). Other: α(K)exp=0.18 *2*, K/L=1.2 (1969Al10) in ^{203}Po ε decay.
		419.3 *1*	16.9 *15*	893.54	5/2$^-$	E1		0.01439	B(E1)(W.u.)=6.9×10^{-7} *+10−9* α(K)=0.01183 *17*; α(L)=0.00196 *3*; α(M)=0.000457 *7* α(N)=0.0001160 *17*; α(O)=2.33×10^{-5} *4*; α(P)=2.63×10^{-6} *4* Mult.: α(K)exp≤0.012. (1972Al25), α(K)exp=0.008 *5* (1969Al10) in ^{203}Po ε decay.
1352.85	7/2$^-$	261.8 *1*	84 *28*	1090.99	7/2$^-$	M1+E2	1.6 *3*	0.32 *5*	α(K)=0.22 *5*; α(L)=0.077 *3*; α(M)=0.0192 *5* α(N)=0.00491 *13*; α(O)=0.00095 *3*; α(P)=9.2×10^{-5} *6*

$^{203}_{83}Bi_{120}$-6

Adopted Levels, Gammas (continued)

γ(^{203}Bi) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	δ[†]	α[a]	Comments
									Mult.,δ: α(K)exp=1.53, K/L=2.7, A_2=−0.1 *3*, A_4=−0.4 *5* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1352.85	7/2$^-$	1352.9 *1*	100 *12*	0	9/2$^-$	M1		0.00890	α(K)=0.00728 *11*; α(L)=0.001205 *17*; α(M)=0.000282 *4* α(N)=7.20×10^{-5} *10*; α(O)=1.473×10^{-5} *21*; α(P)=1.764×10^{-6} *25*; α(IPF)=4.48×10^{-5} *7* Mult.: α(K)exp=0.0022, A_2=0.08 *2*, A_4=0.04 *10* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1408.9	13/2$^-$	161.0[‡] *5*	100[‡]	1247.85	15/2$^-$	M1(+E2)	−0.25	2.53 *5*	α(K)=2.03 *4*; α(L)=0.383 *7*; α(M)=0.0909 *16* α(N)=0.0232 *4*; α(O)=0.00471 *8*; α(P)=0.000545 *10* Mult.,δ: α(L)exp≈0.36, A_2=−0.42 *16*, A_4=−0.10 *26* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1479.3	(5/2$^-$,7/2$^-$,9/2$^-$)	126.5[‡] *5*	100[‡]	1352.85	7/2$^-$	M1(+E2)		5.21 *10*	α(K)=4.24 *8*; α(L)=0.743 *14*; α(M)=0.175 *4* α(N)=0.0447 *8*; α(O)=0.00914 *17*; α(P)=0.001087 *20* Mult.: A_2=−0.14 *3*, A_4=−0.3 *4* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1483.4	(13/2)$^-$	235.5[‡] *5*	100[‡]	1247.85	15/2$^-$	M1(+E2)		0.904 *14*	α(K)=0.737 *12*; α(L)=0.1279 *20*; α(M)=0.0301 *5* α(N)=0.00769 *12*; α(O)=0.001571 *24*; α(P)=0.000187 *3* Mult.: α(K)exp=0.65, K/L≥1.3, A_2=−0.4 *9*, A_4=−0.5 *2* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1488.14	5/2$^+$	175.2 *1*	100 *9*	1312.98	3/2$^+$	M1(+E2)	0.2 *2*	2.02 *14*	α(K)=1.63 *15*; α(L)=0.296 *9*; α(M)=0.070 *3* α(N)=0.0179 *8*; α(O)=0.00365 *12*; α(P)=0.000427 *9* Mult.,δ: α(K)exp=1.9 *2* (1972Al25). Others: α(K)exp=1.6 *1*, K/L=5 (1969Al10). All data are from ^{203}Po ε decay.
		389.9 *2*	37 *4*	1098.21	1/2$^+$	E2		0.0575	α(K)=0.0366 *6*; α(L)=0.01575 *23*; α(M)=0.00400 *6* α(N)=0.001020 *15*; α(O)=0.000196 *3*; α(P)=1.83×10^{-5} *3* Mult.: α(K)exp=0.048 *11* (1972Al25). Others: α(K)exp=0.034 *11* (1969Al10). All data from ^{203}Po ε decay.
1494.5	(15/2$^-$)	246.6[‡] *5*	100[‡]	1247.85	15/2$^-$	(M1)		0.796	α(K)=0.649 *10*; α(L)=0.1125 *17*; α(M)=0.0264 *4* α(N)=0.00676 *11*; α(O)=0.001382 *21*; α(P)=0.0001645 *25* Mult.: α(K)exp≤1.1 in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1499.04	(17/2$^-$)	250.5 *2*	100	1248.53	13/2$^-$			0.2142	α(K)=0.1015; α(L)=0.0838; α(M)=0.02178; α(N+..)=0.00720 E_γ: From ^{203}Tl(α,4nγ). I_γ: From ^{203}Tl(^{3}He,3nγ).
		251.4 *2*	35	1247.85	15/2$^-$			0.788	α(K)=0.642; α(L)=0.1111; α(M)=0.0261; α(N+..)=0.00872 E_γ: From ^{203}Tl(α,4nγ). I_γ: From ^{203}Tl(^{3}He,3nγ).
1561.1	13/2$^+$	677.7[‡] *5*	100[‡]	883.35	11/2$^-$	E1		0.00538	α(K)=0.00446 *7*; α(L)=0.000706 *10*; α(M)=0.0001640 *23* α(N)=4.17×10^{-5} *6*; α(O)=8.44×10^{-6} *12*; α(P)=9.77×10^{-7} *14* Mult.: α(K)exp=0.001, A_2=−0.16 *42*, A_4=0.1 *8* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1575.6	(17/2)$^-$	327.7[‡] *5*	100[‡]	1247.85	15/2$^-$	M1(+E2)	−0.05	0.364 *6*	α(K)=0.297 *5*; α(L)=0.0512 *8*; α(M)=0.01204 *18* α(N)=0.00308 *5*; α(O)=0.000629 *10*; α(P)=7.49×10^{-5} *11*

$^{203}_{83}Bi_{120}$-7

Adopted Levels, Gammas (continued)

γ(^{203}Bi) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	δ[†]	α[a]	Comments
									Mult.,δ: α(K)exp=0.4, K/L≥2, A_2=−0.23 *25*, A_4=−0.02 *38* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1609.82	(5/2)$^-$	486.1 *1*	100	1123.72	(7/2)$^-$	E2		0.0329	α(K)=0.0228 *4*; α(L)=0.00761 *11*; α(M)=0.00191 *3* α(N)=0.000486 *7*; α(O)=9.43×10^{-5} *14*; α(P)=9.24×10^{-6} *13* Mult.: α(K)exp=0.029 *8* (1972Al25), α(K)exp=0.022 *6* (1969Al10) in ^{203}Po ε decay; α(K)exp=0.01, A_2=0.12 *14*, A_4=−0.18 *22* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1672.68	15/2$^-$	424.2[#] *2*	100[#]	1248.53	13/2$^-$	M1(+E2)	0.1	0.180	α(K)=0.1473 *21*; α(L)=0.0253 *4*; α(M)=0.00594 *9* α(N)=0.001518 *22*; α(O)=0.000310 *5*; α(P)=3.69×10^{-5} *6* Mult.,δ: α(K)exp=0.16, K/L=5.3, A_2=−0.27 *40*, A_4=−0.1 *7* in ^{203}Tl(^{3}He,3nγ) (1982Lo14); Other: α(K)exp=0.066 in ^{203}Tl(α,4nγ) (1983Hu15).
1714.4	(9/2)$^-$	361.6[‡] *5*	100[‡]	1352.85	7/2$^-$	M1(+E2)		0.279	ce(K)/(γ+ce)=0.1782 *22*; ce(L)/(γ+ce)=0.0306 *5*; ce(M)/(γ+ce)=0.00719 *11* ce(N)/(γ+ce)=0.00184 *3*; ce(O)/(γ+ce)=0.000376 *6*; ce(P)/(γ+ce)=4.48×10^{-5} *7* α(K)=0.228 *4*; α(L)=0.0392 *6*; α(M)=0.00920 *14* α(N)=0.00235 *4*; α(O)=0.000481 *7*; α(P)=5.73×10^{-5} *9* Mult.: α(K)exp=0.13, K/L=3.3, A_2=−0.07 *11*, A_4=0.07 *17* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1892.6	13/2$^+$	1009.2[‡] *5*	100[‡]	883.35	11/2$^-$	E1		0.00256	α(K)=0.00214 *3*; α(L)=0.000329 *5*; α(M)=7.60×10^{-5} *11* α(N)=1.94×10^{-5} *3*; α(O)=3.93×10^{-6} *6*; α(P)=4.62×10^{-7} *7* Mult.: α(K)exp=0.0012, A_2=0.01 *9*, A_4=0.08 *14* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
1903.52	17/2$^+$	230.9[#] *2*	11[#]	1672.68	15/2$^-$	E1		0.0565	α(K)=0.0459 *7*; α(L)=0.00809 *12*; α(M)=0.00190 *3* α(N)=0.000481 *7*; α(O)=9.54×10^{-5} *14*; α(P)=1.034×10^{-5} *15* Mult.: α(K)exp=0.05, A_2=−0.25 *3* in ^{203}Tl(α,4nγ) (1983Hu15).
		328[b] *1*		1575.6	(17/2)$^-$				E_γ: From ^{203}Tl(^{3}He,3nγ).
		404.5[#] *2*	61[#]	1499.04	(17/2$^-$)	E1		0.01556	α(K)=0.01279 *18*; α(L)=0.00212 *3*; α(M)=0.000495 *7* α(N)=0.0001258 *18*; α(O)=2.52×10^{-5} *4*; α(P)=2.84×10^{-6} *4* Mult.: α(K)exp=0.04, K/L=5.0, A_2=−0.16 *45*, A_4=−0.1 *8* in ^{203}Tl(^{3}He,3nγ) (1982Lo14); α(K)exp=0.034, A_2=−0.22 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
		655.6[#] *2*	100[#]	1247.85	15/2$^-$	E1		0.00574	α(K)=0.00476 *7*; α(L)=0.000755 *11*; α(M)=0.0001754 *25* α(N)=4.46×10^{-5} *7*; α(O)=9.02×10^{-6} *13*; α(P)=1.043×10^{-6} *15* Mult.: α(K)exp=0.005, A_2=−0.10 *3*, A_4≈0 in ^{203}Tl(^{3}He,3nγ) (1982Lo14); α(K)exp=0.0047, A_2=−0.23 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
1990.6	21/2$^+$	87.1[#] *2*	100[#]	1903.52	17/2$^+$	E2		12.07 *22*	α(L)=8.96 *16*; α(M)=2.38 *5* α(N)=0.605 *11*; α(O)=0.1112 *20*; α(P)=0.00848 *15*

$^{203}_{83}Bi_{120}$-8

Adopted Levels, Gammas (continued)

γ(^{203}Bi) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	δ[†]	α[a]	Comments
									B(E2)(W.u.)=1.35 *+12−10* Mult.: L12/L3=1.22 *6* (1983Hu15), L12/L3=1.4 *2* (1978Hu02) in ^{203}Tl(α,4nγ).
2028.6?		125[‡b] *1*	100[‡]	1903.52	17/2$^+$				
2041.5	25/2$^+$	50.9[#] *5*	100[#]	1990.6	21/2$^+$	E2		160 *9*	α(L)=119 *6*; α(M)=31.4 *16* α(N)=8.0 *4*; α(O)=1.46 *8*; α(P)=0.110 *6* B(E2)(W.u.)=0.75 *+15−11* Mult.: L12/L3=1.1 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
2088.1	(21/2$^+$)	184.6[‡] *5*	100[‡]	1903.52	17/2$^+$	(E2)		0.596 *11*	α(K)=0.200 *3*; α(L)=0.295 *6*; α(M)=0.0776 *15* α(N)=0.0197 *4*; α(O)=0.00368 *7*; α(P)=0.000298 *6* Mult.: α(L)exp=0.33, A_2=0.19 *35*, A_4=−0.2 *5* in ^{203}Tl(^{3}He,3nγ) (1982Lo14).
2135.89	(3/2,5/2)$^+$	647.7 *1*	44 *4*	1488.14	5/2$^+$	M1(+E2)	<0.5	0.055 *5*	α(K)=0.045 *4*; α(L)=0.0077 *5*; α(M)=0.00181 *12* α(N)=0.00046 *3*; α(O)=9.5×10^{-5} *7*; α(P)=1.12×10^{-5} *8* Mult.,δ: α(K)exp=0.051 *8* (1972Al25). Other: α(K)exp=0.04 *1* (1969Al10). All data are from ^{203}Po ε decay.
		822.9 *1*	51 *4*	1312.98	3/2$^+$	M1(+E2)	<1.2	0.025 *7*	α(K)=0.021 *6*; α(L)=0.0036 *8*; α(M)=0.00085 *18* α(N)=0.00022 *5*; α(O)=4.4×10^{-5} *10*; α(P)=5.2×10^{-6} *12* Mult.,δ: α(K)exp=0.023 *10* in ^{203}Po ε decay (1972Al25).
		1037.7 *4*	6.0 *24*	1098.21	1/2$^+$				
		1242.4 *1*	100 *6*	893.54	5/2$^-$	E1		0.00181	α(K)=0.001484 *21*; α(L)=0.000225 *4*; α(M)=5.21×10^{-5} *8* α(N)=1.326×10^{-5} *19*; α(O)=2.70×10^{-6} *4*; α(P)=3.20×10^{-7} *5*; α(IPF)=2.91×10^{-5} *4* Mult.: α(K)exp=0.0019 *6* in ^{203}Po ε decay (1972Al25).
2231.16	(3/2,5/2)$^+$	743.0 *1*	21 *4*	1488.14	5/2$^+$	M1(+E2)	<1.9	0.030 *12*	α(K)=0.024 *10*; α(L)=0.0044 *14*; α(M)=0.0010 *3* α(N)=0.00026 *8*; α(O)=5.4×10^{-5} *17*; α(P)=6.3×10^{-6} *22* Mult.,δ: α(K)exp=0.033 *18* in ^{203}Po ε decay (1972Al25).
		918.1 *1*	28 *4*	1312.98	3/2$^+$				
		1133.1 *2*	19 *4*	1098.21	1/2$^+$				
		1337.9 *2*	100 *8*	893.54	5/2$^-$				
2287.06?	(3/2,5/2$^+$)	799.0 *1*	100	1488.14	5/2$^+$				
		973.9 *2*	82 *18*	1312.98	3/2$^+$				
		1188.7 *2*	37 *18*	1098.21	1/2$^+$				
2566.72?	(3/2$^-$,5/2,7/2)	1475.7 *2*	100 *27*	1090.99	7/2$^-$				
		1658.1 *2*	82 *22*	908.73	7/2$^-$				
		1673.0 *3*	82 *22*	893.54	5/2$^-$				
2689.45?	(3/2$^-$,5/2,7/2)	1201.6 *4*	33 *17*	1488.14	5/2$^+$				
		1598.5 *3*	75 *17*	1090.99	7/2$^-$				
		1780.7 *1*	100 *17*	908.73	7/2$^-$				
		1795.9 *2*	83 *17*	893.54	5/2$^-$				
2731.0	27/2$^+$	689.6[#] *2*	100[#]	2041.5	25/2$^+$	M1(+E2)		0.0503	α(K)=0.0412 *6*; α(L)=0.00696 *10*; α(M)=0.001630 *23*

$^{203}_{83}Bi_{120}$-9

Adopted Levels, Gammas (continued)

γ(^{203}Bi) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.	α [a]	Comments
								α(N)=0.000417 *6*; α(O)=8.53×10^{-5} *12*; α(P)=1.018×10^{-5} *15* Mult.: α(K)exp=0.037, A_2=−0.49 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
2752.14	(3/2,5/2,7/2)	1264.0 *1*	100	1488.14	5/2$^+$			
2855.4	27/2$^+$	813.7# *2*	100#	2041.5	25/2$^+$	M1	0.0327	α(K)=0.0268 *4*; α(L)=0.00451 *7*; α(M)=0.001055 *15* α(N)=0.000270 *4*; α(O)=5.52×10^{-5} *8*; α(P)=6.59×10^{-6} *10* Mult.: α(K)exp=0.027, A_2=−0.32 *3* in ^{203}Tl(α,4nγ) (1983Hu15).
3032.2	29/2$^-$	176.7# *2*	59# *6*	2855.4	27/2$^+$	E1	0.1084	α(K)=0.0875 *13*; α(L)=0.01599 *23*; α(M)=0.00377 *6* α(N)=0.000952 *14*; α(O)=0.000187 *3*; α(P)=1.99×10^{-5} *3* B(E1)(W.u.)=5.6×10^{-7} *+6−5* E_γ: uncertainty estimated by the evaluator. Mult.: α(K)exp=0.08, A_2=−0.23 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
		301.3# *2*	100# *10*	2731.0	27/2$^+$	E1	0.0301	α(K)=0.0246 *4*; α(L)=0.00421 *6*; α(M)=0.000987 *14* α(N)=0.000250 *4*; α(O)=4.99×10^{-5} *7*; α(P)=5.52×10^{-6} *8* B(E1)(W.u.)=1.90×10^{-7} *13* E_γ: uncertainty estimated by the evaluator. Mult.: α(K)exp=0.019, A_2=−0.23 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
3130.52	(3/2,5/2$^+$)	1817.5 *3*	100 *11*	1312.98	3/2$^+$			
		2032.5 *3*	37 *11*	1098.21	1/2$^+$			
		2236.9 *2*	53 *11*	893.54	5/2$^-$			
3529.7	31/2$^-$	497.5‡ *2*	100‡	3032.2	29/2$^-$	M1	0.1188	α(K)=0.0971 *14*; α(L)=0.01656 *24*; α(M)=0.00388 *6* α(N)=0.000993 *14*; α(O)=0.000203 *3*; α(P)=2.42×10^{-5} *4* Mult.: α(K)exp=0.17, A_2=−0.46 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
3704.7+x		175@ *1*	100@	3529.7+x				
3826.0	33/2$^-$	296.3‡ *2*	100‡	3529.7	31/2$^-$	M1	0.480	α(K)=0.392 *6*; α(L)=0.0676 *10*; α(M)=0.01589 *23* α(N)=0.00406 *6*; α(O)=0.000831 *12*; α(P)=9.89×10^{-5} *14* Mult.: α(K)exp=0.41, A_2=−0.38 *2* in ^{203}Tl(α,4nγ) (1983Hu15).
3950.7+x		246@ *1*	100@	3704.7+x				
4288.7+x		338@ *1*	100@	3950.7+x				
4470.1	35/2$^-$	644.1‡ *2*	100‡	3826.0	33/2$^-$	M1	0.0602	α(K)=0.0493 *7*; α(L)=0.00833 *12*; α(M)=0.00195 *3* α(N)=0.000499 *7*; α(O)=0.0001021 *15*; α(P)=1.219×10^{-5} *17* Mult.: α(K)exp=0.05 in ^{203}Tl(α,4nγ) (1983Hu15).
4544.3	(37/2)$^-$	74.2 *5*	100	4470.1	35/2$^-$	M1	4.55 *11*	α(L)=3.48 *9*; α(M)=0.819 *20* α(N)=0.209 *5*; α(O)=0.0428 *11*; α(P)=0.00509 *13* B(M1)(W.u.)=0.00235 *8* Mult.: L12/L3>10 in ^{203}Tl(α,4nγ) (1983Hu15).
4730.7+x		442@ *1*	@	4288.7+x				
5247.7+x		517@ *1*	@	4730.7+x				
5824.7+x		577@ *1*	@	5247.7+x				

$^{203}_{83}Bi_{120}$-10

Adopted Levels, Gammas (continued)

$\gamma(^{203}Bi)$ (continued)

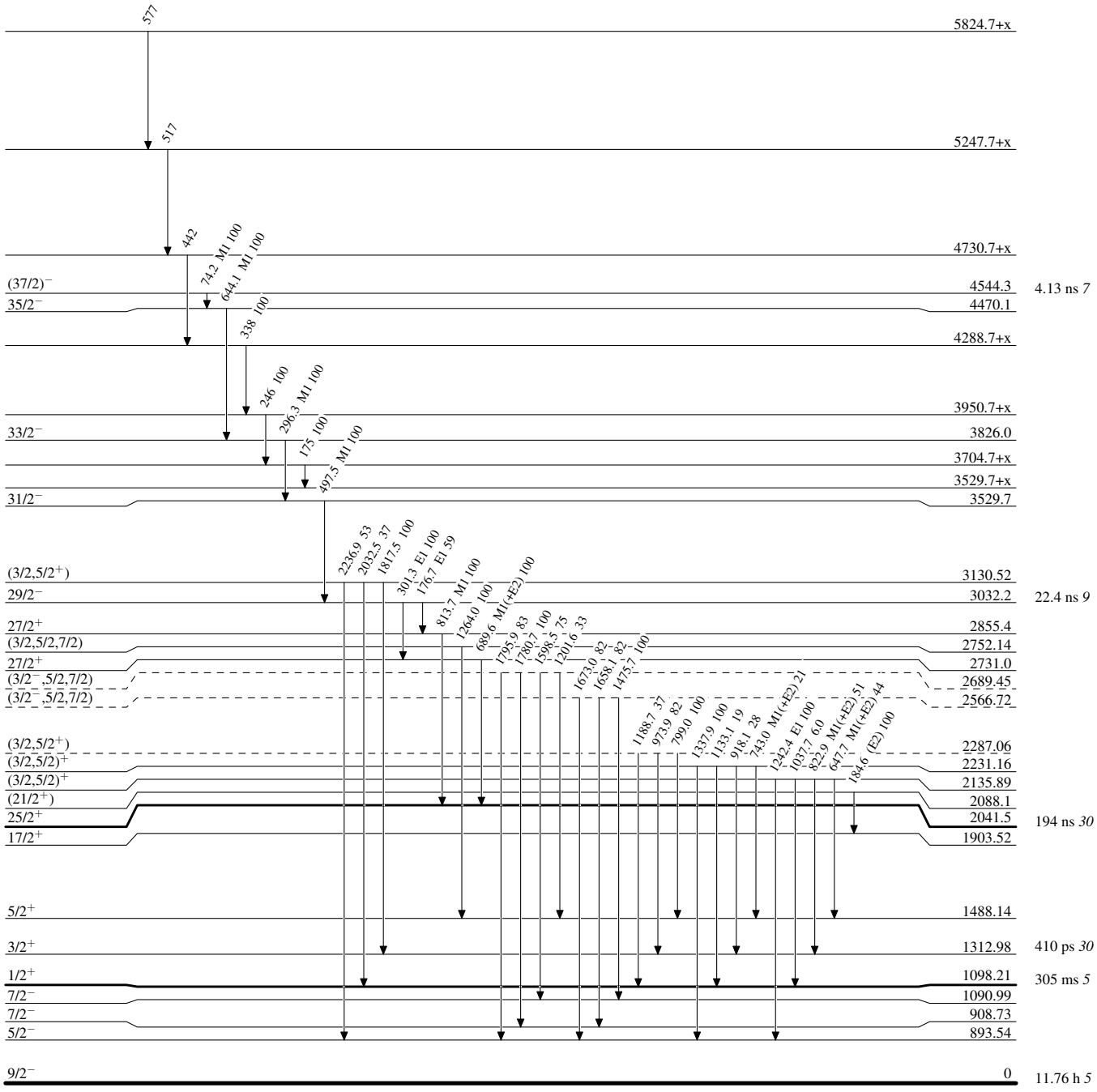
† From ^{203}Po ε decay, unless otherwise stated.
‡ From ^{203}Tl(^{3}He,3nγ).
# From ^{203}Tl(α,4nγ).
@ From ^{198}Pt(^{11}B,6nγ).
& From ^{203}Bi IT decay.
[a] Additional information 2.
[b] Placement of transition in the level scheme is uncertain.

$^{203}_{83}Bi_{120}$-11

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level



$^{203}_{83}Bi_{120}$

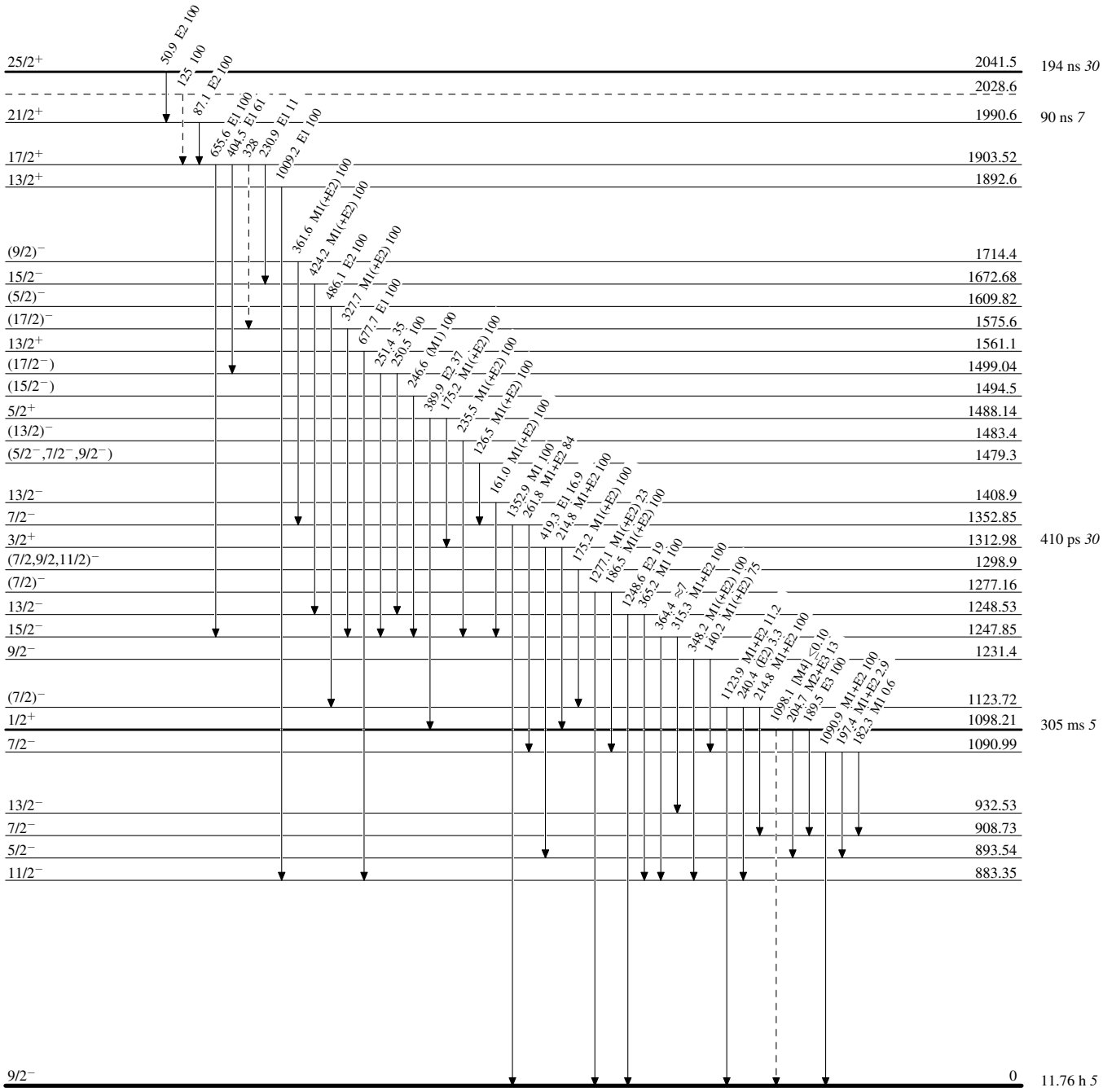
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

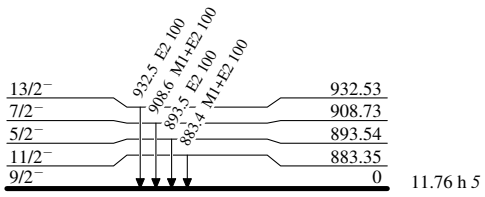


$^{203}_{83}Bi_{120}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{203}_{83}Bi_{120}$