

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 143, 1 (2017)	31-Mar-2017

Q(β^-)=-3585 17; S(n)=7122 22; S(p)=5579 22; Q(α)=2982 18 2017Wa10
 2015Ju02: Measured ^{193m}Hg (11.8 h) production cross section, 17.91 mb 64, bombarding Pb target with proton beam, E=250 MeV.
 2016Ba25: Measured ^{193m}Hg and ^{193g}Hg production cross sections – 7.19 mb 80 and 3.3 mb 11, respectively, bombarding ¹⁹⁷Au with deuteron beam, E=4.4 GeV.

¹⁹³Hg Levels

Cross Reference (XREF) Flags

A	¹⁹³ Hg IT decay (11.8 h)	D	Pt(α ,xny)
B	¹⁹³ Tl ϵ decay (21.6 min)	E	(HI,xny)
C	¹⁹³ Tl ϵ decay (2.11 min)	F	(HI,xny):SD

E(level) [†]	J π :#	T _{1/2}	XREF	Comments
0.0	3/2 ⁽⁻⁾	3.80 h 15	ABC	$\% \epsilon + \% \beta^+ = 100$ $\mu = -0.62757$ 18; Q = -0.72 38 μ : From optical pumping (1971Mo24,2014StZZ), with diamagnetic correction applied. Q: From collinear fast-beam laser spectroscopy, corrected for polarization effects (Sternheimer corrections) (1986UI02,2014StZZ), Limit for possible α decay: <10 ⁻⁵ % (1963Ka17), 10 ⁻¹⁷ % (2001Mo07); other estimated value: <1×10 ⁻¹⁴ % (1997Mo25). J^π : spin from optical spectroscopy, optical level crossing (1976Fu06); parity from Schmidt diagram, μ . T _{1/2} : from 1974ViZS. Other values: 4 h (1958Ma50), 3.5 h 5 (1965KaZZ), 3 h (1966Ha47). RMS charge radius: 5.4239 fm 35(2004An14). Isotope shift: $\Delta \langle r^2 \rangle = -0.234$ fm ² 8 (1986UI02, relative to ¹⁹⁸ Hg).
39.51 3	5/2 ⁽⁻⁾	0.63 ns 3	AB	J^π : M1 γ to 3/2 ⁽⁻⁾ ; M4 γ from 13/2 ⁺ . T _{1/2} : from ¹⁹³ Hg IT decay (11.8 h) (1969Ba42).
49.95 14	(1/2 ⁻)		B	J^π : (M1) γ to 3/2 ⁽⁻⁾ ; expected p1/2 level from shell model.
140.76& 5	13/2 ⁽⁺⁾	11.8 h 2	A DE	$\% \epsilon + \% \beta^+ = 92.8$ 5; $\% IT = 7.2$ 5 $\mu = -1.0585$ 8; Q = +0.92 2 μ : From 1973Re04, optical pumping, with diamagnetic correction applied. 2014StZZ list as -1.058430 3. Other: -1.0416 3 (1971Mo24, optical pumping, no diamagnetic correction). Q: Re-evaluated value listed in 2014StZZ from 2013StZZ. 1986UI02 report +0.916 97, collinear fast-beam laser spectroscopy, corrected for polarization effects (Sternheimer corrections). J^π : spin from optical spectroscopy (1976Fu06); parity from Schmidt diagram, μ . T _{1/2} : from ¹⁹³ Hg IT decay (11.8 h) (1974ViZS). Other values: 11.1 h 5 (1970PI01), 10.0 h 5 (1952Fi06), 11 h 1 (1958Br88). $\% IT$: From ¹⁹³ Hg IT decay (11.8 h). Isotope shift: $\Delta \langle r^2 \rangle = -0.2160$ fm ² 24 (1986UI02, relative to ¹⁹⁸ Hg).
207.74 20	(7/2 ⁻)		B	J^π : (E2) γ to 3/2 ⁽⁻⁾ g.s.; systematics of low-lying states in odd Hg isotopes.
324.36 8	(3/2 ⁻ ,5/2 ⁻)		B	J^π : (M1) γ to 5/2 ⁻ , (E2) γ to (1/2 ⁻).
344.00 10	(1/2 ⁻ ,3/2 ⁻)		B	J^π : (M1) γ to (1/2 ⁻).

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Adopted Levels, Gammas (continued) ^{193}Hg Levels (continued)

E(level) [†]	J ^π ##	T _{1/2}	XREF	Comments
374.61 10	(3/2 ⁻ ,5/2 ⁻ ,7/2 ⁻)		B	J ^π : (M1) γ to 5/2 ⁻ .
522.73 & 19	(17/2 ⁺)		DE	
746.8 ^h 4	(15/2 ⁺)		DE	
752.64 25	(1/2 ⁻ ,3/2 ⁻ ,5/2 ⁻)		B	J ^π : (M1) γ to 3/2 ⁽⁻⁾ .
1026.4 6	(13/2 ⁺ ,15/2 ⁺)		E	
1145.4 & 3	(21/2 ⁺)		DE	
1380.3 ^h 3	(19/2 ⁺)		DE	
1523.1 5	(17/2 ⁺ ,19/2 ⁺)		DE	
1523.3 3	(1/2 ⁻ ,3/2 ⁻ ,5/2 ⁻)		B	J ^π : (M1+E2) γ to (1/2 ⁻ ,3/2 ⁻ ,5/2 ⁻).
1580.10 21	(1/2 ⁻ ,3/2,5/2 ⁻)		B	J ^π : γ to 5/2 ⁻ level.
1735.8 7	(19/2 ⁺)		E	
1755.7 ^g 3	(21/2 ⁻)		DE	
1884.3 & 5	(25/2 ⁺)		DE	
1886.2 ^g 5	(25/2 ⁻)	1.58 ns 6	DE	T _{1/2} : from (α,xnγ).
1890.9 ^a 4	(23/2 ⁻)		DE	
2096.0 ^a 5	(27/2 ⁻)		DE	
2189.2 ^g 5	(29/2 ⁻)		DE	
2289.5 7	(27/2 ⁻)		E	
2351.8 7	(25/2 ⁺)		E	
2502.1 ^d 6	(29/2 ⁺)		DE	
2583.7 ^a 6	(31/2 ⁻)		DE	
2617.3 6	(29/2 ⁻)		E	
2641.7 & 7	(29/2 ⁺)		E	
2695.6 ^d 6	(33/2 ⁺)	0.57 ns 3	DE	T _{1/2} : from (α,xnγ).
2762.2 ^g 6	(33/2 ⁻)		DE	
3176.2 ^d 7	(37/2 ⁺)		DE	
3196.0 8	(33/2 ⁺)		E	
3202.5 7	(33/2 ⁻)		E	
3220.1 8	(33/2 ⁻)		E	
3223.6 ^a 6	(35/2 ⁻)		DE	
3260.3 ^b 8	(33/2 ⁺)		E	
3497.5 ^g 6	(37/2 ⁻)		DE	
3570.2 ^b 8	(37/2 ⁺)		E	
3727.1 7	(37/2 ⁻)		E	
3754.2 8	(37/2 ⁺)		E	
3811?			E	
3850.7 8	(37/2 ⁻)		E	
3880.5 ^d 7	(41/2 ⁺)		DE	
3883.8 ^e 6	(39/2 ⁻)		DE	
4119.7 ^c 9	(39/2 ⁺)		E	
4120.5 ^b 10	(41/2 ⁺)		E	
4150.8 ^f 7	(41/2 ⁻)		E	
4198.0 8	(39/2 ⁻)		E	
4396.8 ^e 7	(43/2 ⁻)		E	
4412.6 ^g 7	(41/2 ⁻)		E	
4416.7 11			E	
4462.2 12			E	
4539.0 7	(41/2 ⁺)		E	
4674.1 ^f 7	(45/2 ⁻)		E	
4683.8 ^c 12	(43/2 ⁺)		E	

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Adopted Levels, Gammas (continued) ^{193}Hg Levels (continued)

E(level) [†]	J ^π _g [#]	XREF	Comments
4688.4 ^d 9	(45/2 ⁺)	E	
4720.6 8	(39/2 ⁻)	E	
4792.0 7	(41/2 ⁻)	E	
4864.9 8	(43/2 ⁻)	E	
4889.9 ^b 13	(45/2 ⁺)	E	
4958.5 7	(45/2 ⁻)	E	
4964.0 13	(43/2)	E	
5033.1 12		E	
5048.0 ^e 9	(47/2 ⁻)	E	
5117.4 8	(45/2 ⁻)	E	
5319.9 8	(43/2)	E	
5339.1 8	(47/2 ⁻)	E	
5361.7 ^c 15	(47/2 ⁺)	E	
5391.9 9	(43/2 ⁺)	E	
5400.3 15		E	
5411.5 ^f 10	(49/2 ⁻)	E	
5442.6 7	(45/2 ⁺)	E	
5547.6 ^k 7	(47/2 ⁺)	E	
5559.5 ^d 12	(49/2 ⁺)	E	
5560.5 9	(47/2 ⁻)	E	
5678.4 8	(49/2 ⁻)	E	
5698.1 ^b 15	(49/2 ⁺)	E	
5702.7 9	(49/2 ⁻)	E	
5714.8? 13		E	
5747.5 10	(49/2 ⁻)	E	
5800.6 9	(49/2 ⁻)	E	
5832.1 ^k 7	(49/2 ⁺)	E	
5899.1 ^e 12	(51/2 ⁻)	E	
6017.1 13	(51/2 ⁻)	E	
6067.7 ^k 8	(51/2 ⁺)	E	
6103.9 9	(51/2 ⁻)	E	
6145.2 9	(51/2 ⁻)	E	
6163.6 ^c 17	(51/2 ⁺)	E	
6305.3 9	(53/2 ⁻)	E	
6394.9 ^f 13	(53/2 ⁻)	E	
6401.0 ^j 18	(53/2 ⁻)	E	The decay out of this level has not been observed.
6419.4 ⁱ 9	(53/2 ⁻)	E	
6428.5 16	(53/2 ⁺)	E	
6464.6 ^k 8	(53/2 ⁺)	E	
6496.9 ^d 15	(53/2 ⁺)	E	
6726.4 ^j 17	(55/2 ⁻)	E	
6832.3 9	(55/2 ⁺)	E	
6839.9 ^k 8	(55/2 ⁺)	E	
6913.4 ^e 15	(55/2 ⁻)	E	
6921.8 16		E	
6921.9 ⁱ 10	(55/2 ⁻)	E	
6978.6 ^j 18	(57/2 ⁻)	E	
7037.5 ^k 9	(57/2 ⁺)	E	
7038.1 16		E	
7133.3 12	(57/2 ⁺)	E	
7186.7 11	(57/2 ⁻)	E	

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Adopted Levels, Gammas (continued) ^{193}Hg Levels (continued)

E(level) [†]	J ^π :#	T _{1/2}	XREF	Comments
7197.9 ^k 10	(59/2 ⁺)		E	
7245.7 ^j 19	(59/2 ⁻)		E	
7276.6 ⁱ 10	(57/2 ⁻)		E	
7281.6 12	(57/2 ⁺)		E	
7440.0 14			E	
7476.4 ^f 16	(57/2 ⁻)		E	
7492.3 16			E	
7555.2 ^k 10	(61/2 ⁺)		E	
7560.4 ^j 19	(61/2 ⁻)		E	
7681.2 12			E	
7699.5 ⁱ 10	(59/2 ⁻)		E	
7838.3 ⁱ 10	(61/2 ⁻)		E	
7920.0 ^j 20	(63/2 ⁻)		E	
7924.8 ^k 10	(63/2 ⁺)		E	
8137.0 ⁱ 11	(63/2 ⁻)		E	
8331.0 ^j 20	(65/2 ⁻)		E	
8388.8 ^k 11	(65/2 ⁺)		E	
8394.8 ⁱ 11	(65/2 ⁻)		E	
8751.0 ⁱ 12	(67/2 ⁻)		E	
8757.8 ^j 21	(67/2 ⁻)		E	
8886.8 ^k 12	(67/2 ⁺)		E	
8978.1 13			E	
9221.5 ⁱ 12	(69/2 ⁻)		E	
9409.1 ^k 14	(69/2 ⁺)		E	
9675.9 ⁱ 13	(71/2 ⁻)		E	
9923.1 ^k 16	(71/2 ⁺)		E	
10290.4 ⁱ 14	(73/2 ⁻)		E	
10853.6 ⁱ 15	(75/2 ⁻)		E	
x ^l	J		F	Additional information 1. J ^π : J≈(19/2 ⁻). 1993Fa07 suggested that the lowest transition in this band is 192 keV, but 1993Jo09 do not seem to confirm this.
111.8+x ^m 4	J+1		F	
233.20+x ^l 20	J+2		F	
365.8+x ^m 4	J+3		F	
507.4+x ^l 3	J+4		F	
660.4+x ^m 4	J+5		F	
821.3+x ^l 4	J+6		F	
995.3+x ^m 4	J+7		F	
1174.7+x ^l 4	J+8		F	
1369.8+x ^m 4	J+9		F	
1566.6+x ^l 4	J+10		F	
1782.9+x ^m 5	J+11		F	
1995.6+x ^l 5	J+12		F	
2234.0+x ^m 5	J+13		F	
2460.1+x ^l 5	J+14		F	
2722.3+x ^m 5	J+15		F	
2957.5+x ^l 5	J+16		F	
3247.2+x ^m 6	J+17		F	
3485.7+x ^l 6	J+18	0.132 [@] ps 14	F	

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Adopted Levels, Gammas (continued) ^{193}Hg Levels (continued)

E(level) [†]	J ^π ‡#	T _{1/2}	XREF	Comments
3807.1+x ^m 6	J+19		F	
4044.2+x ^l 6	J+20	0.104 [@] ps 7	F	
4402.0+x ^m 6	J+21		F	
4634.2+x ^l 6	J+22	0.083 [@] ps +7-14	F	
5030.8+x ^m 7	J+23		F	
5256.8+x ^l 7	J+24	0.062 [@] ps 7	F	
5692.5+x ^m 7	J+25		F	
5912.5+x ^l 7	J+26		F	
6386.6+x ^m 7	J+27		F	
6601.0+x ^l 7	J+28		F	
7112.2+x ^m 8	J+29		F	
7322.3+x ^l 8	J+30		F	
7868.8+x ^m 8	J+31		F	
8075.5+x ^l 8	J+32		F	
8656.1+x ^m 8	J+33		F	
8860.4+x ^l 8	J+34		F	
9473.8+x ^m 9	J+35		F	
9677.0+x ^l 9	J+36		F	
10321.3+x ^m 10	J+37		F	
10524.8+x ^l 10	J+38		F	
11197.4+x ^m 11	J+39		F	
11405.7+x ^l 11	J+40		F	
y ⁿ	J1		F	Additional information 2. J ^π : J ₁ ≈(19/2 ⁺).
111.9+y ^o 4	J1+1		F	
233.49+y ⁿ 20	J1+2		F	
366.1+y ^o 4	J1+3		F	
508.5+y ⁿ 3	J1+4		F	
660.9+y ^o 4	J1+5		F	
823.5+y ⁿ 4	J1+6		F	
996.0+y ^o 4	J1+7		F	
1178.3+y ⁿ 4	J1+8		F	
1370.6+y ^o 4	J1+9		F	
1572.1+y ⁿ 4	J1+10		F	
1783.9+y ^o 4	J1+11		F	
2004.2+y ⁿ 5	J1+12		F	
2235.0+y ^o 5	J1+13		F	
2474.0+y ⁿ 5	J1+14		F	
2723.3+y ^o 5	J1+15		F	
2980.2+y ⁿ 5	J1+16		F	
3248.2+y ^o 6	J1+17	0.146 [@] ps +14-21	F	
3521.7+y ⁿ 6	J1+18		F	
3808.1+y ^o 6	J1+19	0.076 [@] ps +7-14	F	
4098.5+y ⁿ 6	J1+20		F	
4403.0+y ^o 6	J1+21	0.083 [@] ps 7	F	
4709.8+y ⁿ 7	J1+22		F	
5031.8+y ^o 7	J1+23		F	
5354.1+y ⁿ 7	J1+24		F	
5693.5+y ^o 7	J1+25		F	
6031.9+y ⁿ 7	J1+26		F	

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Adopted Levels, Gammas (continued) ^{193}Hg Levels (continued)

E(level) [†]	J ^π ‡#	XREF	Comments
6387.5+y ^O 7	J1+27	F	
6741.8+y ⁿ 7	J1+28	F	
7113.1+y ^O 8	J1+29	F	
7484.0+y ⁿ 8	J1+30	F	
7869.7+y ^O 8	J1+31	F	
8255.2+y ⁿ 8	J1+32	F	
8657.0+y ^O 8	J1+33	F	
9057.4+y ⁿ 9	J1+34	F	
9474.7+y ^O 9	J1+35	F	
9889.5+y ⁿ 11	J1+36	F	
10322.3+y ^O 10	J1+37	F	
10750.0+y ⁿ 12	J1+38	F	
11198.4+y ^O 11	J1+39	F	
z ^P	J2	F	Additional information 3. J ^π : J ₂ ≈ (27/2 ⁻). 1998Li54 suggest J=25/2 for this level on the basis of the systematics for the bandhead moments of inertia.
291.00+z ^P 20	J2+2	F	
619.8+z ^P 3	J2+4	F	
986.4+z ^P 4	J2+6	F	
1391.4+z ^P 4	J2+8	F	
1835.6+z ^P 5	J2+10	F	
2319.9+z ^P 5	J2+12	F	
2845.8+z ^P 6	J2+14	F	
3412.5+z ^P 6	J2+16	F	
4017.5+z ^P 6	J2+18	F	
4658.0+z ^P 7	J2+20	F	
5332.5+z ^P 7	J2+22	F	
6040.0+z ^P 7	J2+24	F	
6779.3+z ^P 8	J2+26	F	
7549.0+z ^P 9	J2+28	F	
8350.3+z ^P 10	J2+30	F	
9181.6+z ^P 11	J2+32	F	
10042.6+z ^P	J2+34	F	
u ^Q	J3	F	Additional information 4. J ^π : J ₃ ≈ (21/2 ⁻).
240.52+u ^Q 20	J3+2	F	
522.4+u ^Q 3	J3+4	F	
845.9+u ^Q 4	J3+6	F	
1211.3+u ^Q 4	J3+8	F	
1617.8+u ^Q 5	J3+10	F	
2065.3+u ^Q 5	J3+12	F	
2553.4+u ^Q 6	J3+14	F	
3081.4+u ^Q 6	J3+16	F	
3648.6+u ^Q 6	J3+18	F	
4254.9+u ^Q 7	J3+20	F	
4899.4+u ^Q 7	J3+22	F	
5581.3+u ^Q 7	J3+24	F	
6299.9+u ^Q 8	J3+26	F	
7054.4+u ^Q 8	J3+28	F	
7844.2+u ^Q 8	J3+30	F	

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Adopted Levels, Gammas (continued) ^{193}Hg Levels (continued)

E(level) [†]	J^π [‡] #	XREF
8668.5+u ^g 9	J3+32	F
9526.4+u ^g 10	J3+34	F

[†] From least-squares fit to $E\gamma$.

[‡] From (HI,xny) data set, unless otherwise noted. J^π assignments are based on multipolarities of transitions and fits of coincident γ rays into an interconnected set of rotational bands.

For SD bands, the bandhead J^π is from the (HI,xny):SD dataset and from least-squares fit to expansions relating second moment of inertia and angular frequency (1990Cu05).

@ From line-shape analysis (1998Bu03).

& Band(A): Band (1) Proposed configuration: $\nu(i_{13/2})$ (1995Fo13).

^a Band(B): Band (2) Proposed configuration: $\nu(i_{13/2}^2 p_{3/2})$ (1995Fo13).

^b Band(C): Band (3) Proposed configuration: $\nu(i_{13/2}^3 p_{3/2}^2)$ (1995Fo13).

^c Band(D): Band (4) Proposed configuration: $\nu(i_{13/2}^3 p_{3/2} h_{9/2})$ (1995Fo13).

^d Band(E): Band (5) Proposed configuration: $\nu(i_{13/2}^3)$ (1995Fo13).

^e Band(F): Band (6) Proposed configuration: $\nu(i_{13/2}^4 p_{3/2})$ (1995Fo13).

^f Band(G): Band (7) Proposed configuration: $\nu(i_{13/2}^4 p_{3/2})$ (1995Fo13).

^g Band(H): Band (8) Proposed configuration: $\nu(i_{13/2}^2 p_{3/2})$ (1995Fo13).

^h Band(I): Band (9) Proposed configuration: $\nu(i_{13/2})$ (1995Fo13).

ⁱ Band(J): Dipole band (1).

^j Band(K): Dipole band (2).

^k Band(L): Dipole band (3).

^l Band(M): SD-1 Band: Possible configuration: [512]5/2, $\alpha=-1/2$ (1998Bu03,1994Jo10,1993Jo09,1990Cu05). $Q(\text{intrinsic})=18.4 +8-9$ (1998Bu03). Percent population=1.6 3 (1990Cu05). g factor (intrinsic)=-0.65 14 (1993Jo09). This is deduced from the ratio of interband (M1) and intraband (E2) transition intensities. Possible configuration: [512]5/2, $\alpha=-1/2$ below $E\gamma\approx 400$. and $j_{15/2}$ above $E\gamma\approx 600$ keV.

^m Band(N): SD-2 Band: Possible configuration: [512]5/2, $\alpha=+1/2$ (1998Bu03,1994Jo10,1993Jo09,1990Cu05). $Q(\text{intrinsic})=17.3 +11-9$ (1998Bu03). Percent population=2.1 3 (1990Cu05). The relative intensity of this band is anomalously high (≈ 2 times that of its signature partner SD-3 band) which leads to suggestion that this band may be composed of two SD bands, one of them being the signature partner of SD-3 band. Signature partner of SD-1 band.

ⁿ Band(O): SD-3 Band: Possible configuration: [624]9/2, $\alpha=-1/2$ (1998Bu03,1994Jo10,1993Jo09,1990Cu05). $Q(\text{intrinsic})=16.1 +15-14$ (1998Bu03). Percent population=0.9 3 (1990Cu05).

^o Band(P): SD-4 Band: Possible configuration: [624]9/2, $\alpha=+1/2$ (1998Bu03,1994Jo10,1993Jo09,1990Cu05). $Q(\text{intrinsic})=17.3 +11-9$ (1998Bu03). Signature partner of SD-3 band. SD-2 and SD-4 bands are unresolved but FWHM of lines is consistently greater than that for lines in SD-1 band (from (HI,xny):SD).

^p Band(Q): SD-5 Band: configuration: (N=7, $\alpha=-1/2$) (1998Bu03,1994Jo10,1993Jo09,1990Cu05). $Q(\text{intrinsic})=16.7 10$ (1998Bu03). Percent population=1.1 3 (1990Cu05). $j_{15/2}$, $\alpha=-1/2$ intruder band below $E\gamma\approx 400$ keV and [512]5/2 $\alpha=-1/2$ above $E\gamma\approx 600$ keV. Configuration: (N=7, $\alpha=-1/2$)(1994Jo10).

^q Band(R): SD-6 Band: configuration: (N=7, $\alpha=+1/2$) (1998Bu03,1994Jo10). $Q(\text{intrinsic})=16.7 +14-13$ (1998Bu03). Percent population ≈ 0.6 (1994Jo10). Configuration: (N=7, $\alpha=+1/2$) (1994Jo10).

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$

Some mixing ratios from ^{193}Tl ε decay and Pt(α ,xn γ) data sets are listed in the Comments column. If no value is specified for this parameter a default $\delta=1.0$ is assumed.

$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma^\&$	E_f	J_f^π	Mult. ^b	δ^e	α^d	Comments
39.51	5/2 ⁽⁻⁾	39.51 [‡] 3	100	0.0	3/2 ⁽⁻⁾	M1 [‡]		21.7	B(M1)(W.u.)=0.0239 14 $\alpha(\text{L})=16.64$ 24; $\alpha(\text{M})=3.88$ 6 $\alpha(\text{N})=0.972$ 14; $\alpha(\text{O})=0.184$ 3; $\alpha(\text{P})=0.01406$ 20
49.95	(1/2 ⁻)	49.58 [#] 11	100 ^g	0.0	3/2 ⁽⁻⁾	(M1) [#]		11.2 8	$\alpha(\text{L})=8.6$ 6; $\alpha(\text{M})=2.00$ 14 $\alpha(\text{N})=0.50$ 4; $\alpha(\text{O})=0.095$ 7; $\alpha(\text{P})=0.0072$ 5
140.76	13/2 ⁽⁺⁾	101.25 [‡] 4	100	39.51	5/2 ⁽⁻⁾	M4 [‡]		6.13×10 ³	B(M4)(W.u.)=1.38 11 $\alpha(\text{K})=170.4$ 24; $\alpha(\text{L})=4.12\times 10^3$ 6; $\alpha(\text{M})=1405$ 20 $\alpha(\text{N})=369$ 6; $\alpha(\text{O})=61.4$ 9; $\alpha(\text{P})=1.298$ 19
207.74	(7/2 ⁻)	207.74 [#] 20	100	0.0	3/2 ⁽⁻⁾	(E2) [#]		0.343	$\alpha(\text{K})=0.1546$ 22; $\alpha(\text{L})=0.1415$ 21; $\alpha(\text{M})=0.0365$ 6 $\alpha(\text{N})=0.00907$ 14; $\alpha(\text{O})=0.001536$ 23; $\alpha(\text{P})=1.93\times 10^{-5}$ 3
324.36	(3/2 ⁻ ,5/2 ⁻)	274.39 [#] 14	13.5 [#] 13	49.95	(1/2 ⁻)	(E2) [#]		0.1395	$\alpha(\text{K})=0.0783$ 11; $\alpha(\text{L})=0.0460$ 7; $\alpha(\text{M})=0.01172$ 17 $\alpha(\text{N})=0.00292$ 5; $\alpha(\text{O})=0.000500$ 7; $\alpha(\text{P})=1.000\times 10^{-5}$ 14
		284.89 [#] 13	21.6 [#] 10	39.51	5/2 ⁽⁻⁾	(M1) [#]		0.415	$\alpha(\text{K})=0.341$ 5; $\alpha(\text{L})=0.0570$ 8; $\alpha(\text{M})=0.01325$ 19 $\alpha(\text{N})=0.00332$ 5; $\alpha(\text{O})=0.000629$ 9; $\alpha(\text{P})=4.82\times 10^{-5}$ 7
		324.37 [#] 10	100 [#]	0.0	3/2 ⁽⁻⁾	(M1) [#]		0.292	$\alpha(\text{K})=0.240$ 4; $\alpha(\text{L})=0.0399$ 6; $\alpha(\text{M})=0.00928$ 13 $\alpha(\text{N})=0.00233$ 4; $\alpha(\text{O})=0.000441$ 7; $\alpha(\text{P})=3.38\times 10^{-5}$ 5
344.00	(1/2 ⁻ ,3/2 ⁻)	294.08 [#] 25	10.3 [#] 12	49.95	(1/2 ⁻)	(M1) [#]		0.381	$\alpha(\text{K})=0.313$ 5; $\alpha(\text{L})=0.0522$ 8; $\alpha(\text{M})=0.01214$ 18 $\alpha(\text{N})=0.00305$ 5; $\alpha(\text{O})=0.000576$ 9; $\alpha(\text{P})=4.42\times 10^{-5}$ 7
		343.99 [#] 10	100 [#] 4	0.0	3/2 ⁽⁻⁾	(M1+E2) [#]	1.7 +17-6	0.117 35	$\alpha(\text{K})=0.086$ 32; $\alpha(\text{L})=0.023$ 3; $\alpha(\text{M})=0.0057$ 6 $\alpha(\text{N})=0.00143$ 15; $\alpha(\text{O})=0.00026$ 4; $\alpha(\text{P})=1.18\times 10^{-5}$ 45 δ : from ^{193}Tl ε decay (21.6 min).

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Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)									
$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma^\&$	E_f	J_f^π	Mult. ^b	δ^e	α^d	Comments
374.61	(3/2 ⁻ ,5/2 ⁻ ,7/2 ⁻)	49.5 ^{g#} 11	40 ^{g#} 19	324.36	(3/2 ⁻ ,5/2 ⁻)	(M1) [#]		11.2 8	$\alpha(\text{L})=8.6$ 6; $\alpha(\text{M})=2.00$ 14 $\alpha(\text{N})=0.50$ 4; $\alpha(\text{O})=0.095$ 7; $\alpha(\text{P})=0.0072$ 5
		335.11 [#] 10	100 [#] 4	39.51	5/2 ⁽⁻⁾	(M1) [#]		0.267	$\alpha(\text{K})=0.219$ 3; $\alpha(\text{L})=0.0365$ 6; $\alpha(\text{M})=0.00849$ 12 $\alpha(\text{N})=0.00213$ 3; $\alpha(\text{O})=0.000403$ 6; $\alpha(\text{P})=3.09 \times 10^{-5}$ 5
		374.58 [#] 22	29 [#] 3	0.0	3/2 ⁽⁻⁾	(E2) [#]		0.0566	$\alpha(\text{K})=0.0372$ 6; $\alpha(\text{L})=0.01459$ 21; $\alpha(\text{M})=0.00365$ 6 $\alpha(\text{N})=0.000910$ 13; $\alpha(\text{O})=0.0001591$ 23; $\alpha(\text{P})=4.88 \times 10^{-6}$ 7
522.73	(17/2 ⁺)	382.0 2	100	140.76	13/2 ⁽⁺⁾	E2		0.0536	$\alpha(\text{K})=0.0356$ 5; $\alpha(\text{L})=0.01363$ 20; $\alpha(\text{M})=0.00341$ 5 $\alpha(\text{N})=0.000849$ 12; $\alpha(\text{O})=0.0001487$ 21; $\alpha(\text{P})=4.67 \times 10^{-6}$ 7
746.8	(15/2 ⁺)	606.0 4	100	140.76	13/2 ⁽⁺⁾	(M1+E2)		0.036 20	$\alpha(\text{K})=0.029$ 17; $\alpha(\text{L})=0.0053$ 22; $\alpha(\text{M})=0.00126$ 48 $\alpha(\text{N})=3.1 \times 10^{-4}$ 12; $\alpha(\text{O})=5.9 \times 10^{-5}$ 24; $\alpha(\text{P})=4.0 \times 10^{-6}$ 24
752.64	(1/2 ⁻ ,3/2 ⁻ ,5/2 ⁻)	713.0 [#] 4	52 [#] 6	39.51	5/2 ⁽⁻⁾	(E2) [#]		0.01204	$\alpha(\text{K})=0.00933$ 13; $\alpha(\text{L})=0.00207$ 3; $\alpha(\text{M})=0.000496$ 7 $\alpha(\text{N})=0.0001240$ 18; $\alpha(\text{O})=2.26 \times 10^{-5}$ 4; $\alpha(\text{P})=1.235 \times 10^{-6}$ 18
		752.5 [#] 4	100 [#] 15	0.0	3/2 ⁽⁻⁾	(M1) [#]		0.0316	$\alpha(\text{K})=0.0261$ 4; $\alpha(\text{L})=0.00424$ 6; $\alpha(\text{M})=0.000982$ 14 $\alpha(\text{N})=0.000246$ 4; $\alpha(\text{O})=4.66 \times 10^{-5}$ 7; $\alpha(\text{P})=3.61 \times 10^{-6}$ 5
1026.4	(13/2 ⁺ ,15/2 ⁺)	885.7 8	100	140.76	13/2 ⁽⁺⁾				
1145.4	(21/2 ⁺)	622.7 2	100	522.73	(17/2 ⁺)	E2		0.01618	$\alpha(\text{K})=0.01227$ 18; $\alpha(\text{L})=0.00298$ 5; $\alpha(\text{M})=0.000721$ 11 $\alpha(\text{N})=0.000180$ 3; $\alpha(\text{O})=3.25 \times 10^{-5}$ 5; $\alpha(\text{P})=1.628 \times 10^{-6}$ 23
1380.3	(19/2 ⁺)	633.5 4	92.9 18	746.8	(15/2 ⁺)	E2		0.01557	$\alpha(\text{K})=0.01184$ 17; $\alpha(\text{L})=0.00284$ 4; $\alpha(\text{M})=0.000687$ 10 $\alpha(\text{N})=0.0001714$ 25; $\alpha(\text{O})=3.10 \times 10^{-5}$ 5; $\alpha(\text{P})=1.571 \times 10^{-6}$ 22
		857.5 4	100 8	522.73	(17/2 ⁺)	(M1+E2)	0.33 6	0.0212 6	$\alpha(\text{K})=0.0175$ 5; $\alpha(\text{L})=0.00285$ 7; $\alpha(\text{M})=0.000661$ 17 $\alpha(\text{N})=0.000166$ 4; $\alpha(\text{O})=3.14 \times 10^{-5}$ 8; $\alpha(\text{P})=2.41 \times 10^{-6}$ 7 δ : from Pt(α ,xn γ).
1523.1	(17/2 ⁺ ,19/2 ⁺)	496.7 8	37.6 9	1026.4	(13/2 ⁺ ,15/2 ⁺)	Q			

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)									
$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma^\&$	E_f	J_f^π	Mult. ^b	δ^e	α^d	Comments
1523.1	(17/2 ⁺ ,19/2 ⁺)	1000.4 4	100.0 18	522.73	(17/2 ⁺)	D+Q			
1523.3	(1/2 ⁻ ,3/2 ⁻ ,5/2 ⁻)	770.4 [#] 4	100 [#] 6	752.64	(1/2 ⁻ ,3/2 ⁻ ,5/2 ⁻)	(M1+E2) [#]	0.9 +10-5	0.0210 66	$\alpha(\text{K})=0.0171$ 56; $\alpha(\text{L})=0.00296$ 77; $\alpha(\text{M})=6.9\times 10^{-4}$ 18 $\alpha(\text{N})=1.73\times 10^{-4}$ 44; $\alpha(\text{O})=3.25\times 10^{-5}$ 86; $\alpha(\text{P})=2.35\times 10^{-6}$ 79 δ : from ^{193}Tl ε decay (21.6 min).
		1484.1 [#] 7	26 [#] 8	39.51	5/2 ⁽⁻⁾				
		1523.4 [#] 4	62 [#] 15	0.0	3/2 ⁽⁻⁾				
1580.10	(1/2 ⁻ ,3/2 ⁻ ,5/2 ⁻)	1205.4 [#] 3	23 [#] 3	374.61	(3/2 ⁻ ,5/2 ⁻ ,7/2 ⁻)				
		1256.0 [#] 3	23 [#] 4	324.36	(3/2 ⁻ ,5/2 ⁻)				
		1539.4 [#] 10	20 [#] 4	39.51	5/2 ⁽⁻⁾				
		1579.3 [#] 10	100 [#] 22	0.0	3/2 ⁽⁻⁾				
1735.8	(19/2 ⁺)	989.0 8	100	746.8	(15/2 ⁺)	Q			
1755.7	(21/2 ⁻)	(19.9 10)	<1	1735.8	(19/2 ⁺)	[E1]		6.7 10	$\alpha(\text{L})=5.1$ 8; $\alpha(\text{M})=1.27$ 20 $\alpha(\text{N})=0.30$ 5; $\alpha(\text{O})=0.046$ 7; $\alpha(\text{P})=0.00110$ 12
		232.3 4	37.4 9	1523.1	(17/2 ⁺ ,19/2 ⁺)	D			
		375.2 4	100 3	1380.3	(19/2 ⁺)	(E1)		0.01662	$\alpha(\text{K})=0.01373$ 20; $\alpha(\text{L})=0.00222$ 4; $\alpha(\text{M})=0.000513$ 8 $\alpha(\text{N})=0.0001277$ 19; $\alpha(\text{O})=2.36\times 10^{-5}$ 4; $\alpha(\text{P})=1.579\times 10^{-6}$ 23
		610.5 6	29.7 23	1145.4	(21/2 ⁺)				
1884.3	(25/2 ⁺)	738.9 4	100	1145.4	(21/2 ⁺)	E2		0.01116	$\alpha(\text{K})=0.00869$ 13; $\alpha(\text{L})=0.00188$ 3; $\alpha(\text{M})=0.000452$ 7 $\alpha(\text{N})=0.0001128$ 16; $\alpha(\text{O})=2.06\times 10^{-5}$ 3; $\alpha(\text{P})=1.150\times 10^{-6}$ 17
1886.2	(25/2 ⁻)	130.5 4	100	1755.7	(21/2 ⁻)	E2		1.88 4	B(E2)(W.u.)=49.1 23 $\alpha(\text{K})=0.435$ 7; $\alpha(\text{L})=1.081$ 22; $\alpha(\text{M})=0.282$ 6 $\alpha(\text{N})=0.0700$ 14; $\alpha(\text{O})=0.01167$ 23; $\alpha(\text{P})=5.96\times 10^{-5}$ 10
1890.9	(23/2 ⁻)	135.0 10	1.6 6	1755.7	(21/2 ⁻)	(M1+E2)		2.50 86	$\alpha(\text{K})=1.6$ 12; $\alpha(\text{L})=0.70$ 24; $\alpha(\text{M})=0.175$ 67 $\alpha(\text{N})=0.044$ 17; $\alpha(\text{O})=0.0076$ 25; $\alpha(\text{P})=2.2\times 10^{-4}$ 17
		745.5 4	100 6	1145.4	(21/2 ⁺)	(E1+M2)		0.0048 8	$\alpha(\text{K})=0.0040$ 7; $\alpha(\text{L})=0.00063$ 13; $\alpha(\text{M})=0.00015$ 3 $\alpha(\text{N})=3.6\times 10^{-5}$ 8; $\alpha(\text{O})=6.8\times 10^{-6}$ 14; $\alpha(\text{P})=5.0\times 10^{-7}$ 11
2096.0	(27/2 ⁻)	205.1 4	100.0 25	1890.9	(23/2 ⁻)	E2		0.359 6	$\alpha(\text{K})=0.1595$ 24; $\alpha(\text{L})=0.1493$ 25; $\alpha(\text{M})=0.0385$ 7

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma \&$	E_f	J_f^π	Mult. ^b	α^d	Comments
2096.0	(27/2 ⁻)	209.6 8	4.1 3	1886.2	(25/2 ⁻)	[M1]	0.970 17	$\alpha(\text{N})=0.00957$ 16; $\alpha(\text{O})=0.00162$ 3; $\alpha(\text{P})=1.99 \times 10^{-5}$ 3 $\alpha(\text{K})=0.796$ 14; $\alpha(\text{L})=0.1337$ 24; $\alpha(\text{M})=0.0311$ 6
		211.9 8	7.1 5	1884.3	(25/2 ⁺)	(E1)	0.0642 11	$\alpha(\text{N})=0.00780$ 14; $\alpha(\text{O})=0.00148$ 3; $\alpha(\text{P})=0.0001130$ 20 $\alpha(\text{K})=0.0525$ 9; $\alpha(\text{L})=0.00898$ 16; $\alpha(\text{M})=0.00209$ 4 $\alpha(\text{N})=0.000518$ 9; $\alpha(\text{O})=9.44 \times 10^{-5}$ 16; $\alpha(\text{P})=5.67 \times 10^{-6}$ 10
2189.2	(29/2 ⁻)	93.4 10 302.9 4	0.9 3 100.0 18	2096.0 (27/2 ⁻) 1886.2 (25/2 ⁻)		E2	0.1035	$\alpha(\text{K})=0.0616$ 9; $\alpha(\text{L})=0.0315$ 5; $\alpha(\text{M})=0.00799$ 12 $\alpha(\text{N})=0.00199$ 3; $\alpha(\text{O})=0.000343$ 5; $\alpha(\text{P})=7.94 \times 10^{-6}$ 12
2289.5	(27/2 ⁻)	403.2 8	100	1886.2 (25/2 ⁻)				
2351.8	(25/2 ⁺)	1206.6 8	100	1145.4 (21/2 ⁺)				
2502.1	(29/2 ⁺)	150.5 10 617.8 4	1.20 13 100 5	2351.8 (25/2 ⁺) 1884.3 (25/2 ⁺)		Q E2	0.01647	$\alpha(\text{K})=0.01247$ 18; $\alpha(\text{L})=0.00304$ 5; $\alpha(\text{M})=0.000737$ 11 $\alpha(\text{N})=0.000184$ 3; $\alpha(\text{O})=3.33 \times 10^{-5}$ 5; $\alpha(\text{P})=1.654 \times 10^{-6}$ 24
2583.7	(31/2 ⁻)	394.7 8 487.7 4	4.7 4 100.0 21	2189.2 (29/2 ⁻) 2096.0 (27/2 ⁻)		E2	0.0286	$\alpha(\text{K})=0.0206$ 3; $\alpha(\text{L})=0.00611$ 9; $\alpha(\text{M})=0.001504$ 22 $\alpha(\text{N})=0.000375$ 6; $\alpha(\text{O})=6.67 \times 10^{-5}$ 10; $\alpha(\text{P})=2.72 \times 10^{-6}$ 4
2617.3	(29/2 ⁻)	327.7 6 428.1 8 521.3 10 731.1 8	92.3 26 100 13 26 5 48.7 26	2289.5 (27/2 ⁻) 2189.2 (29/2 ⁻) 2096.0 (27/2 ⁻) 1886.2 (25/2 ⁻)		D		
2641.7	(29/2 ⁺)	757.5 6	100	1884.3 (25/2 ⁺)		(E2)	0.01059	$\alpha(\text{K})=0.00827$ 12; $\alpha(\text{L})=0.00177$ 3; $\alpha(\text{M})=0.000423$ 6 $\alpha(\text{N})=0.0001057$ 15; $\alpha(\text{O})=1.93 \times 10^{-5}$ 3; $\alpha(\text{P})=1.095 \times 10^{-6}$ 16 B(E2)(W.u.)=38.3 21
2695.6	(33/2 ⁺)	193.5 4	100	2502.1 (29/2 ⁺)		E2	0.438	$\alpha(\text{K})=0.183$ 3; $\alpha(\text{L})=0.191$ 4; $\alpha(\text{M})=0.0494$ 9 $\alpha(\text{N})=0.01226$ 21; $\alpha(\text{O})=0.00207$ 4; $\alpha(\text{P})=2.29 \times 10^{-5}$ 4
2762.2	(33/2 ⁻)	573.0 4	100	2189.2 (29/2 ⁻)		E2	0.0195	$\alpha(\text{K})=0.01457$ 21; $\alpha(\text{L})=0.00377$ 6; $\alpha(\text{M})=0.000917$ 13 $\alpha(\text{N})=0.000229$ 4; $\alpha(\text{O})=4.12 \times 10^{-5}$ 6; $\alpha(\text{P})=1.93 \times 10^{-6}$ 3
3176.2	(37/2 ⁺)	480.6 4	100	2695.6 (33/2 ⁺)		E2	0.0297	$\alpha(\text{K})=0.0212$ 3; $\alpha(\text{L})=0.00640$ 10; $\alpha(\text{M})=0.001576$ 23 $\alpha(\text{N})=0.000393$ 6; $\alpha(\text{O})=6.99 \times 10^{-5}$ 10; $\alpha(\text{P})=2.81 \times 10^{-6}$ 4
3196.0	(33/2 ⁺)	500.3 10 554.4 7	<25 100 24	2695.6 (33/2 ⁺) 2641.7 (29/2 ⁺)		Q		
3202.5	(33/2 ⁻)	585.2 8 1013.4 8	100 4 59 19	2617.3 (29/2 ⁻) 2189.2 (29/2 ⁻)				
3220.1	(33/2 ⁻)	602.9 8	100	2617.3 (29/2 ⁻)				
3223.6	(35/2 ⁻)	461.4 8 640.0 4	10.7 5 100.0 19	2762.2 (33/2 ⁻) 2583.7 (31/2 ⁻)		E2	0.01522	$\alpha(\text{K})=0.01160$ 17; $\alpha(\text{L})=0.00276$ 4; $\alpha(\text{M})=0.000667$ 10 $\alpha(\text{N})=0.0001666$ 24; $\alpha(\text{O})=3.02 \times 10^{-5}$ 5; $\alpha(\text{P})=1.538 \times 10^{-6}$ 22
3260.3	(33/2 ⁺)	564.7 10 758.2 8	19 3 100 6	2695.6 (33/2 ⁺) 2502.1 (29/2 ⁺)		(E2)	0.01057	$\alpha(\text{K})=0.00826$ 12; $\alpha(\text{L})=0.00176$ 3; $\alpha(\text{M})=0.000422$ 6 $\alpha(\text{N})=0.0001055$ 15; $\alpha(\text{O})=1.93 \times 10^{-5}$ 3; $\alpha(\text{P})=1.093 \times 10^{-6}$ 16
3497.5	(37/2 ⁻)	735.2 4	100	2762.2 (33/2 ⁻)		E2	0.01128	$\alpha(\text{K})=0.00878$ 13; $\alpha(\text{L})=0.00191$ 3; $\alpha(\text{M})=0.000458$ 7 $\alpha(\text{N})=0.0001143$ 16; $\alpha(\text{O})=2.09 \times 10^{-5}$ 3; $\alpha(\text{P})=1.162 \times 10^{-6}$ 17

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ †	I_γ &	E_f	J_f^π	Mult. ^b	α^d	Comments
3570.2	(37/2 ⁺)	309.9 8	83.3 24	3260.3	(33/2 ⁺)	(E2)	0.0967 16	$\alpha(\text{K})=0.0583$ 9; $\alpha(\text{L})=0.0289$ 5; $\alpha(\text{M})=0.00732$ 13 $\alpha(\text{N})=0.00182$ 4; $\alpha(\text{O})=0.000315$ 6; $\alpha(\text{P})=7.53 \times 10^{-6}$ 12
3727.1	(37/2 ⁻)	393.9 8	100.0 24	3176.2	(37/2 ⁺)	Q		
		507.0 8	80 4	3220.1	(33/2 ⁻)			
		524.5 8	100 12	3202.5	(33/2 ⁻)			
3754.2	(37/2 ⁺)	965.0 8	52 22	2762.2	(33/2 ⁻)	Q		
		558.2 8	100 30	3196.0	(33/2 ⁺)			
		1058.6 10	54 8	2695.6	(33/2 ⁺)			
3811?		1115.0 ^h 10	100	2695.6	(33/2 ⁺)			
3850.7	(37/2 ⁻)	1088.5 8	100	2762.2	(33/2 ⁻)	Q		
3880.5	(41/2 ⁺)	704.3 4	100	3176.2	(37/2 ⁺)	(E2)	0.01236	$\alpha(\text{K})=0.00956$ 14; $\alpha(\text{L})=0.00213$ 3; $\alpha(\text{M})=0.000513$ 8 $\alpha(\text{N})=0.0001281$ 18; $\alpha(\text{O})=2.33 \times 10^{-5}$ 4; $\alpha(\text{P})=1.266 \times 10^{-6}$ 18
3883.8	(39/2 ⁻)	660.2 4	100	3223.6	(35/2 ⁻)	(E2)	0.01422	$\alpha(\text{K})=0.01089$ 16; $\alpha(\text{L})=0.00254$ 4; $\alpha(\text{M})=0.000612$ 9 $\alpha(\text{N})=0.0001528$ 22; $\alpha(\text{O})=2.77 \times 10^{-5}$ 4; $\alpha(\text{P})=1.444 \times 10^{-6}$ 21
4119.7	(39/2 ⁺)	549.5 10	21.1 26	3570.2	(37/2 ⁺)	(M1)	0.0177	$\alpha(\text{K})=0.01462$ 21; $\alpha(\text{L})=0.00236$ 4; $\alpha(\text{M})=0.000546$ 8 $\alpha(\text{N})=0.0001369$ 20; $\alpha(\text{O})=2.59 \times 10^{-5}$ 4; $\alpha(\text{P})=2.02 \times 10^{-6}$ 3
		943.5 8	100.0 26	3176.2	(37/2 ⁺)			
4120.5	(41/2 ⁺)	550.3 6	100	3570.2	(37/2 ⁺)	(E2)	0.0214	$\alpha(\text{K})=0.01587$ 23; $\alpha(\text{L})=0.00424$ 6; $\alpha(\text{M})=0.001035$ 15 $\alpha(\text{N})=0.000258$ 4; $\alpha(\text{O})=4.63 \times 10^{-5}$ 7; $\alpha(\text{P})=2.11 \times 10^{-6}$ 3
4150.8	(41/2 ⁻)	653.3 4	100	3497.5	(37/2 ⁻)	(E2)	0.01455	$\alpha(\text{K})=0.01112$ 16; $\alpha(\text{L})=0.00261$ 4; $\alpha(\text{M})=0.000630$ 9 $\alpha(\text{N})=0.0001573$ 23; $\alpha(\text{O})=2.85 \times 10^{-5}$ 4; $\alpha(\text{P})=1.475 \times 10^{-6}$ 21
4198.0	(39/2 ⁻)	314.2 10	83 25	3883.8	(39/2 ⁻)	Q		
		974.4 8	100 25	3223.6	(35/2 ⁻)			
4396.8	(43/2 ⁻)	512.9 4	100	3883.8	(39/2 ⁻)	(E2)	0.0253	$\alpha(\text{K})=0.0184$ 3; $\alpha(\text{L})=0.00523$ 8; $\alpha(\text{M})=0.001283$ 19 $\alpha(\text{N})=0.000320$ 5; $\alpha(\text{O})=5.72 \times 10^{-5}$ 9; $\alpha(\text{P})=2.45 \times 10^{-6}$ 4
4412.6	(41/2 ⁻)	561.9 8	25 4	3850.7	(37/2 ⁻)	Q		
		685.7 8	19 4	3727.1	(37/2 ⁻)			
		915.1 6	100.0 14	3497.5	(37/2 ⁻)			
						(E2)	0.00720	$\alpha(\text{K})=0.00574$ 8; $\alpha(\text{L})=0.001114$ 16; $\alpha(\text{M})=0.000264$ 4 $\alpha(\text{N})=6.60 \times 10^{-5}$ 10; $\alpha(\text{O})=1.217 \times 10^{-5}$ 18; $\alpha(\text{P})=7.55 \times 10^{-7}$ 11
4416.7		1240.5 8	100	3176.2	(37/2 ⁺)			
4462.2		1286.0 10	100	3176.2	(37/2 ⁺)			
4539.0	(41/2 ⁺)	784.8 8	100 8	3754.2	(37/2 ⁺)	Q		
		1362.8 8	54 4	3176.2	(37/2 ⁺)	Q		
4674.1	(45/2 ⁻)	523.2 4	100	4150.8	(41/2 ⁻)	(E2)	0.0242	$\alpha(\text{K})=0.01767$ 25; $\alpha(\text{L})=0.00493$ 7; $\alpha(\text{M})=0.001207$ 18 $\alpha(\text{N})=0.000301$ 5; $\alpha(\text{O})=5.38 \times 10^{-5}$ 8; $\alpha(\text{P})=2.34 \times 10^{-6}$ 4
4683.8	(43/2 ⁺)	564.1 8	100	4119.7	(39/2 ⁺)	(E2)	0.0202	$\alpha(\text{K})=0.01506$ 22; $\alpha(\text{L})=0.00394$ 6; $\alpha(\text{M})=0.000961$ 14 $\alpha(\text{N})=0.000240$ 4; $\alpha(\text{O})=4.31 \times 10^{-5}$ 7; $\alpha(\text{P})=2.00 \times 10^{-6}$ 3
4688.4	(45/2 ⁺)	807.9 6	100	3880.5	(41/2 ⁺)	(E2)	0.00926	$\alpha(\text{K})=0.00729$ 11; $\alpha(\text{L})=0.001505$ 22; $\alpha(\text{M})=0.000359$ 5 $\alpha(\text{N})=8.96 \times 10^{-5}$ 13; $\alpha(\text{O})=1.644 \times 10^{-5}$ 24; $\alpha(\text{P})=9.63 \times 10^{-7}$ 14
4720.6	(39/2 ⁻)	993.6 8	100	3727.1	(37/2 ⁻)			
4792.0	(41/2 ⁻)	(71.3)		4720.6	(39/2 ⁻)			
		594.1 8	100 4	4198.0	(39/2 ⁻)			

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)									
$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma \&$	E_f	J_f^π	Mult. ^b	α^d	Comments	
4792.0	(41/2 ⁻)	908.2 8 1064.8 10 1294.4 10	91 13 39 13 30 13	3883.8 3727.1 3497.5	(39/2 ⁻) (37/2 ⁻) (37/2 ⁻)	D			
4864.9	(43/2 ⁻)	(72.9) 144.5 10		4792.0 4720.6	(41/2 ⁻) (39/2 ⁻)				
4889.9	(45/2 ⁺)	769.4 8	100	4120.5	(41/2 ⁺)	(E2)	0.01025	$\alpha(\text{K})=0.00802$ 12; $\alpha(\text{L})=0.001700$ 25; $\alpha(\text{M})=0.000406$ 6 $\alpha(\text{N})=0.0001015$ 15; $\alpha(\text{O})=1.86 \times 10^{-5}$ 3; $\alpha(\text{P})=1.061 \times 10^{-6}$ 15	
4958.5	(45/2 ⁻)	546.0 6 561.4 8	100.0 13 44 5	4412.6 4396.8	(41/2 ⁻) (43/2 ⁻)	Q			
4964.0	(43/2)	843.5 8	100	4120.5	(41/2 ⁺)	D			
5033.1		1152.6 10	100	3880.5	(41/2 ⁺)				
5048.0	(47/2 ⁻)	651.2 6	100	4396.8	(43/2 ⁻)	Q			
5117.4	(45/2 ⁻)	252.5 4 325.5 ^h 10	100.0 20 5.4 7	4864.9 4792.0	(43/2 ⁻) (41/2 ⁻)	D			
5319.9	(43/2)	1169.0 8	100	4150.8	(41/2 ⁻)				
5339.1	(47/2 ⁻)	221.7 4 474.2 8	100 3 52.3 15	5117.4 4864.9	(45/2 ⁻) (43/2 ⁻)	D Q			
5361.7	(47/2 ⁺)	677.9 8	100	4683.8	(43/2 ⁺)				
5391.9	(43/2 ⁺)	1511.5 8	100	3880.5	(41/2 ⁺)	(D+Q)			
5400.3		716.5 8	100	4683.8	(43/2 ⁺)	D			
5411.5	(49/2 ⁻)	737.4 6	100	4674.1	(45/2 ⁻)	(E2)	0.01121	$\alpha(\text{K})=0.00872$ 13; $\alpha(\text{L})=0.00189$ 3; $\alpha(\text{M})=0.000454$ 7 $\alpha(\text{N})=0.0001134$ 16; $\alpha(\text{O})=2.07 \times 10^{-5}$ 3; $\alpha(\text{P})=1.155 \times 10^{-6}$ 17	
5442.6	(45/2 ⁺)	123.0 10 903.5 6 1046.0 8 1562.0 10	1.6 3 100.0 15 27.9 15 5.9 15	5319.9 4539.0 4396.8 3880.5	(43/2) (41/2 ⁺) (43/2 ⁻) (41/2 ⁺)	Q D			
5547.6	(47/2 ⁺)	105.2 8 155.9 10 227.4 8 589.1 8 873.4 6	2.4 3 3.0 6 15.2 15 19.7 15 100.0 15	5442.6 5391.9 5319.9 4958.5 4674.1	(45/2 ⁺) (43/2 ⁺) (43/2) (45/2 ⁻) (45/2 ⁻)	D (E1)	0.00295	$\alpha(\text{K})=0.00247$ 4; $\alpha(\text{L})=0.000372$ 6; $\alpha(\text{M})=8.55 \times 10^{-5}$ 12 $\alpha(\text{N})=2.13 \times 10^{-5}$ 3; $\alpha(\text{O})=4.01 \times 10^{-6}$ 6; $\alpha(\text{P})=2.98 \times 10^{-7}$ 5	
5559.5	(49/2 ⁺)	871.1 8	100	4688.4	(45/2 ⁺)	(E2)	0.00794	$\alpha(\text{K})=0.00631$ 9; $\alpha(\text{L})=0.001252$ 18; $\alpha(\text{M})=0.000297$ 5 $\alpha(\text{N})=7.43 \times 10^{-5}$ 11; $\alpha(\text{O})=1.368 \times 10^{-5}$ 20; $\alpha(\text{P})=8.31 \times 10^{-7}$ 12	
5560.5	(47/2 ⁻)	443.2 6	100	5117.4	(45/2 ⁻)				
5678.4	(49/2 ⁻)	339.4 8 719.8 6	14 4 100 9	5339.1 4958.5	(47/2 ⁻) (45/2 ⁻)				
5698.1	(49/2 ⁺)	808.2 8	100	4889.9	(45/2 ⁺)	(E2)	0.00926	$\alpha(\text{K})=0.00729$ 11; $\alpha(\text{L})=0.001503$ 22; $\alpha(\text{M})=0.000358$ 5 $\alpha(\text{N})=8.96 \times 10^{-5}$ 13; $\alpha(\text{O})=1.643 \times 10^{-5}$ 24; $\alpha(\text{P})=9.63 \times 10^{-7}$ 14	
5702.7	(49/2 ⁻)	363.6 8 744.4 8	73 3 100 17	5339.1 4958.5	(47/2 ⁻) (45/2 ⁻)	D			
5714.8?		375.8 ^h 10	100	5339.1	(47/2 ⁻)				

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma \&$	E_f	J_f^π	Mult. ^b	α^d	Comments
5747.5	(49/2 ⁻)	789.0 10	100	4958.5	(45/2 ⁻)			
5800.6	(49/2 ⁻)	240.1 6	63 6	5560.5	(47/2 ⁻)			
		461.5 6	100 9	5339.1	(47/2 ⁻)			
5832.1	(49/2 ⁺)	284.5 4	100.0 24	5547.6	(47/2 ⁺)	M1	0.417	$\alpha(\text{K})=0.342\ 5$; $\alpha(\text{L})=0.0572\ 9$; $\alpha(\text{M})=0.01330\ 20$ $\alpha(\text{N})=0.00334\ 5$; $\alpha(\text{O})=0.000631\ 10$; $\alpha(\text{P})=4.84 \times 10^{-5}\ 7$
		389.6 8	7.8 6	5442.6	(45/2 ⁺)	Q		
5899.1	(51/2 ⁻)	851.1 8	100	5048.0	(47/2 ⁻)			
6017.1	(51/2 ⁻)	302.2 ^h 10	86 29	5714.8?				
		678.0 10	100 14	5339.1	(47/2 ⁻)	Q		
6067.7	(51/2 ⁺)	235.6 4	100.0 19	5832.1	(49/2 ⁺)	(M1)	0.701	$\alpha(\text{K})=0.575\ 9$; $\alpha(\text{L})=0.0964\ 15$; $\alpha(\text{M})=0.0224\ 4$ $\alpha(\text{N})=0.00563\ 9$; $\alpha(\text{O})=0.001065\ 16$; $\alpha(\text{P})=8.16 \times 10^{-5}\ 12$
		520.1 4	83.9 19	5547.6	(47/2 ⁺)	(E2)	0.0245	$\alpha(\text{K})=0.0179\ 3$; $\alpha(\text{L})=0.00502\ 8$; $\alpha(\text{M})=0.001229\ 18$ $\alpha(\text{N})=0.000307\ 5$; $\alpha(\text{O})=5.48 \times 10^{-5}\ 8$; $\alpha(\text{P})=2.37 \times 10^{-6}\ 4$
6103.9	(51/2 ⁻)	401.1 8	100 3	5702.7	(49/2 ⁻)	D		
		425.5 8	48 10	5678.4	(49/2 ⁻)			
		543.5 10	17 3	5560.5	(47/2 ⁻)			
		765.0 8	62 7	5339.1	(47/2 ⁻)			
6145.2	(51/2 ⁻)	442.6 8	100 12	5702.7	(49/2 ⁻)	[M1]	0.1266	$\alpha(\text{K})=0.1042\ 16$; $\alpha(\text{L})=0.0172\ 3$; $\alpha(\text{M})=0.00400\ 6$ $\alpha(\text{N})=0.001002\ 15$; $\alpha(\text{O})=0.000190\ 3$; $\alpha(\text{P})=1.460 \times 10^{-5}\ 22$
		806.0 8	44 4	5339.1	(47/2 ⁻)			
6163.6	(51/2 ⁺)	801.9 8	100	5361.7	(47/2 ⁺)			
6305.3	(53/2 ⁻)	557.7 8	29 9	5747.5	(49/2 ⁻)			
		626.8 6	100.0 17	5678.4	(49/2 ⁻)			
6394.9	(53/2 ⁻)	983.4 8	100	5411.5	(49/2 ⁻)	(E2)	0.00624	$\alpha(\text{K})=0.00501\ 7$; $\alpha(\text{L})=0.000943\ 14$; $\alpha(\text{M})=0.000223\ 4$ $\alpha(\text{N})=5.56 \times 10^{-5}\ 8$; $\alpha(\text{O})=1.030 \times 10^{-5}\ 15$; $\alpha(\text{P})=6.58 \times 10^{-7}\ 10$
6419.4	(53/2 ⁻)	113.9 10	<7	6305.3	(53/2 ⁻)			
		274.2 8	29.3 13	6145.2	(51/2 ⁻)	D		
		315.6 6	55 5	6103.9	(51/2 ⁻)	D		
		618.7 6	100 8	5800.6	(49/2 ⁻)			
		716.7 8	27 4	5702.7	(49/2 ⁻)			
6428.5	(53/2 ⁺)	869.0 10	100	5559.5	(49/2 ⁺)			
6464.6	(53/2 ⁺)	397.0 4	100.0 15	6067.7	(51/2 ⁺)	(M1)	0.1692	$\alpha(\text{K})=0.1392\ 20$; $\alpha(\text{L})=0.0231\ 4$; $\alpha(\text{M})=0.00536\ 8$ $\alpha(\text{N})=0.001344\ 20$; $\alpha(\text{O})=0.000254\ 4$; $\alpha(\text{P})=1.95 \times 10^{-5}\ 3$
		632.6 6	44 4	5832.1	(49/2 ⁺)	(E2)	0.01562	$\alpha(\text{K})=0.01188\ 17$; $\alpha(\text{L})=0.00285\ 4$; $\alpha(\text{M})=0.000689\ 10$ $\alpha(\text{N})=0.0001721\ 25$; $\alpha(\text{O})=3.11 \times 10^{-5}\ 5$; $\alpha(\text{P})=1.576 \times 10^{-6}\ 23$
6496.9	(53/2 ⁺)	937.4 8	100	5559.5	(49/2 ⁺)			
6726.4	(55/2 ⁻)	325.4 10	78 22	6401.0	(53/2 ⁻)			
		709.3 10	100 22	6017.1	(51/2 ⁻)	Q		
6832.3	(55/2 ⁺)	367.8 8	57 5	6464.6	(53/2 ⁺)	D		
		764.6 6	100.0 18	6067.7	(51/2 ⁺)	Q		
6839.9	(55/2 ⁺)	375.4 4	57 3	6464.6	(53/2 ⁺)	(M1)	0.197	$\alpha(\text{K})=0.1617\ 24$; $\alpha(\text{L})=0.0268\ 4$; $\alpha(\text{M})=0.00623\ 9$ $\alpha(\text{N})=0.001563\ 23$; $\alpha(\text{O})=0.000296\ 5$; $\alpha(\text{P})=2.27 \times 10^{-5}\ 4$

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ †	I_γ &	E_f	J_f^π	Mult. ^b	α^d	Comments
6839.9	(55/2 ⁺)	772.2 4	100.0 19	6067.7	(51/2 ⁺)	(E2)	0.01017	$\alpha(\text{K})=0.00797$ 12; $\alpha(\text{L})=0.001684$ 24; $\alpha(\text{M})=0.000403$ 6 $\alpha(\text{N})=0.0001006$ 15; $\alpha(\text{O})=1.84 \times 10^{-5}$ 3; $\alpha(\text{P})=1.054 \times 10^{-6}$ 15
6913.4	(55/2 ⁻)	1014.3 8	100	5899.1	(51/2 ⁻)			
6921.8		1022.7 10	100	5899.1	(51/2 ⁻)			
6921.9	(55/2 ⁻)	502.4 8	100.0 25	6419.4	(53/2 ⁻)	(M1)	0.0905	$\alpha(\text{K})=0.0746$ 11; $\alpha(\text{L})=0.01227$ 18; $\alpha(\text{M})=0.00285$ 5 $\alpha(\text{N})=0.000714$ 11; $\alpha(\text{O})=0.0001352$ 20; $\alpha(\text{P})=1.042 \times 10^{-5}$ 16
6978.6	(57/2 ⁻)	818.2 8 252.3 8 577.6 10	95.0 25 73 27 100 20	6103.9 (51/2 ⁻) 6726.4 (55/2 ⁻) 6401.0 (53/2 ⁻)		Q (E2)	0.0192	$\alpha(\text{K})=0.01433$ 21; $\alpha(\text{L})=0.00368$ 6; $\alpha(\text{M})=0.000896$ 14 $\alpha(\text{N})=0.000224$ 4; $\alpha(\text{O})=4.02 \times 10^{-5}$ 6; $\alpha(\text{P})=1.90 \times 10^{-6}$ 3
7037.5	(57/2 ⁺)	197.6 4	100 3	6839.9 (55/2 ⁺)		(M1)	1.143	$\alpha(\text{K})=0.938$ 15; $\alpha(\text{L})=0.1577$ 24; $\alpha(\text{M})=0.0367$ 6 $\alpha(\text{N})=0.00921$ 14; $\alpha(\text{O})=0.00174$ 3; $\alpha(\text{P})=0.0001333$ 21
7038.1		205.1 9 1139.0 10	14.3 19 100	6832.3 (55/2 ⁺) 5899.1 (51/2 ⁻)				
7133.3	(57/2 ⁺)	293.4 8	100	6839.9 (55/2 ⁺)		D		
7186.7	(57/2 ⁻)	881.5 8	100	6305.3 (53/2 ⁻)				
7197.9	(59/2 ⁺)	160.4 4	100	7037.5 (57/2 ⁺)		(M1)	2.05 4	$\alpha(\text{K})=1.68$ 3; $\alpha(\text{L})=0.284$ 5; $\alpha(\text{M})=0.0662$ 11 $\alpha(\text{N})=0.0166$ 3; $\alpha(\text{O})=0.00314$ 5; $\alpha(\text{P})=0.000240$ 4
7245.7	(59/2 ⁻)	267.0 8	100	6978.6 (57/2 ⁻)		(M1)	0.496 8	$\alpha(\text{K})=0.407$ 7; $\alpha(\text{L})=0.0682$ 12; $\alpha(\text{M})=0.0159$ 3 $\alpha(\text{N})=0.00398$ 7; $\alpha(\text{O})=0.000752$ 13; $\alpha(\text{P})=5.77 \times 10^{-5}$ 10
7276.6	(57/2 ⁻)	354.7 8 857.1 6	50.6 12 100 6	6921.9 (55/2 ⁻) 6419.4 (53/2 ⁻)		(E2)	0.00821	$\alpha(\text{K})=0.00650$ 10; $\alpha(\text{L})=0.001302$ 19; $\alpha(\text{M})=0.000310$ 5 $\alpha(\text{N})=7.74 \times 10^{-5}$ 11; $\alpha(\text{O})=1.423 \times 10^{-5}$ 20; $\alpha(\text{P})=8.58 \times 10^{-7}$ 12
7281.6	(57/2 ⁺)	449.3 8	100	6832.3 (55/2 ⁺)		D		
7440.0		306.7 8	100 6	7133.3 (57/2 ⁺)		D		
7476.4	(57/2 ⁻)	600.2 ^h 10 1081.5 10	24 6 100	6839.9 (55/2 ⁺) 6394.9 (53/2 ⁻)				
7492.3		1097.4 10	100	6394.9 (53/2 ⁻)				
7555.2	(61/2 ⁺)	357.3 4	100.0 16	7197.9 (59/2 ⁺)		(M1)	0.225	$\alpha(\text{K})=0.185$ 3; $\alpha(\text{L})=0.0307$ 5; $\alpha(\text{M})=0.00713$ 11 $\alpha(\text{N})=0.00179$ 3; $\alpha(\text{O})=0.000338$ 5; $\alpha(\text{P})=2.60 \times 10^{-5}$ 4
7560.4	(61/2 ⁻)	517.6 8 314.7 8	13.7 8 100 4	7037.5 (57/2 ⁺) 7245.7 (59/2 ⁻)		(M1)	0.317	$\alpha(\text{K})=0.260$ 4; $\alpha(\text{L})=0.0434$ 7; $\alpha(\text{M})=0.01008$ 16 $\alpha(\text{N})=0.00253$ 4; $\alpha(\text{O})=0.000479$ 8; $\alpha(\text{P})=3.67 \times 10^{-5}$ 6
7681.2		581.9 10 848.9 8	39 8 100	6978.6 (57/2 ⁻) 6832.3 (55/2 ⁺)				
7699.5	(59/2 ⁻)	422.9 6	100 5	7276.6 (57/2 ⁻)		(M1)	0.1430	$\alpha(\text{K})=0.1176$ 17; $\alpha(\text{L})=0.0195$ 3; $\alpha(\text{M})=0.00452$ 7 $\alpha(\text{N})=0.001133$ 17; $\alpha(\text{O})=0.000214$ 4; $\alpha(\text{P})=1.650 \times 10^{-5}$ 24
7838.3	(61/2 ⁻)	512.8 10 777.6 8 138.8 4	13.6 15 77.3 15 47.6 16	7186.7 (57/2 ⁻) 6921.9 (55/2 ⁻) 7699.5 (59/2 ⁻)		(E2) (M1)	0.01003 3.10	$\alpha(\text{K})=0.00786$ 12; $\alpha(\text{L})=0.001655$ 24; $\alpha(\text{M})=0.000395$ 6 $\alpha(\text{N})=9.88 \times 10^{-5}$ 14; $\alpha(\text{O})=1.81 \times 10^{-5}$ 3; $\alpha(\text{P})=1.039 \times 10^{-6}$ 15 $\alpha(\text{K})=2.54$ 5; $\alpha(\text{L})=0.429$ 7; $\alpha(\text{M})=0.0999$ 17 $\alpha(\text{N})=0.0251$ 4; $\alpha(\text{O})=0.00474$ 8; $\alpha(\text{P})=0.000362$ 6

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma \&$	E_f	J_f^π	Mult. ^b	α^d	Comments
7838.3	(61/2 ⁻)	561.8 6	100 6	7276.6	(57/2 ⁻)	(E2)	0.0204	$\alpha(\text{K})=0.01519$ 22; $\alpha(\text{L})=0.00399$ 6; $\alpha(\text{M})=0.000973$ 14 $\alpha(\text{N})=0.000243$ 4; $\alpha(\text{O})=4.36 \times 10^{-5}$ 7; $\alpha(\text{P})=2.02 \times 10^{-6}$ 3
7920.0	(63/2 ⁻)	359.6 8	100 11	7560.4	(61/2 ⁻)	(M1)	0.221 4	$\alpha(\text{K})=0.181$ 3; $\alpha(\text{L})=0.0301$ 5; $\alpha(\text{M})=0.00701$ 11 $\alpha(\text{N})=0.00176$ 3; $\alpha(\text{O})=0.000333$ 5; $\alpha(\text{P})=2.55 \times 10^{-5}$ 4
		674.1 8	92 4	7245.7	(59/2 ⁻)	(E2)	0.01358	$\alpha(\text{K})=0.01044$ 15; $\alpha(\text{L})=0.00240$ 4; $\alpha(\text{M})=0.000578$ 9 $\alpha(\text{N})=0.0001443$ 21; $\alpha(\text{O})=2.62 \times 10^{-5}$ 4; $\alpha(\text{P})=1.384 \times 10^{-6}$ 20
7924.8	(63/2 ⁺)	369.7 6	100 5	7555.2	(61/2 ⁺)	(M1)	0.205	$\alpha(\text{K})=0.1685$ 25; $\alpha(\text{L})=0.0280$ 5; $\alpha(\text{M})=0.00650$ 10 $\alpha(\text{N})=0.001630$ 24; $\alpha(\text{O})=0.000308$ 5; $\alpha(\text{P})=2.37 \times 10^{-5}$ 4
		726.9 6	95.2 16	7197.9	(59/2 ⁺)	(E2)	0.01155	$\alpha(\text{K})=0.00898$ 13; $\alpha(\text{L})=0.00197$ 3; $\alpha(\text{M})=0.000472$ 7 $\alpha(\text{N})=0.0001178$ 17; $\alpha(\text{O})=2.15 \times 10^{-5}$ 3; $\alpha(\text{P})=1.189 \times 10^{-6}$ 17
8137.0	(63/2 ⁻)	298.7 4	100.0 17	7838.3	(61/2 ⁻)	(M1)	0.365	$\alpha(\text{K})=0.300$ 5; $\alpha(\text{L})=0.0500$ 8; $\alpha(\text{M})=0.01163$ 17 $\alpha(\text{N})=0.00292$ 5; $\alpha(\text{O})=0.000552$ 8; $\alpha(\text{P})=4.23 \times 10^{-5}$ 7
		437.5 8	11.9 25	7699.5	(59/2 ⁻)	(E2)	0.0376	$\alpha(\text{K})=0.0261$ 4; $\alpha(\text{L})=0.00864$ 14; $\alpha(\text{M})=0.00214$ 4 $\alpha(\text{N})=0.000534$ 9; $\alpha(\text{O})=9.43 \times 10^{-5}$ 15; $\alpha(\text{P})=3.45 \times 10^{-6}$ 5
8331.0	(65/2 ⁻)	411.0 8	86 5	7920.0	(63/2 ⁻)	(M1)	0.1543	$\alpha(\text{K})=0.1269$ 19; $\alpha(\text{L})=0.0210$ 4; $\alpha(\text{M})=0.00488$ 8 $\alpha(\text{N})=0.001224$ 19; $\alpha(\text{O})=0.000232$ 4; $\alpha(\text{P})=1.78 \times 10^{-5}$ 3
		770.7 8	100 5	7560.4	(61/2 ⁻)	(E2)	0.01021	$\alpha(\text{K})=0.00800$ 12; $\alpha(\text{L})=0.001693$ 25; $\alpha(\text{M})=0.000405$ 6 $\alpha(\text{N})=0.0001011$ 15; $\alpha(\text{O})=1.85 \times 10^{-5}$ 3; $\alpha(\text{P})=1.058 \times 10^{-6}$ 15
8388.8	(65/2 ⁺)	464.0 8	100 10	7924.8	(63/2 ⁺)	(M1)	0.1117	$\alpha(\text{K})=0.0920$ 14; $\alpha(\text{L})=0.01517$ 23; $\alpha(\text{M})=0.00352$ 6 $\alpha(\text{N})=0.000883$ 13; $\alpha(\text{O})=0.0001672$ 25; $\alpha(\text{P})=1.287 \times 10^{-5}$ 19
		833.6 8	97.6 24	7555.2	(61/2 ⁺)	(E2)	0.00869	$\alpha(\text{K})=0.00686$ 10; $\alpha(\text{L})=0.001393$ 20; $\alpha(\text{M})=0.000332$ 5 $\alpha(\text{N})=8.29 \times 10^{-5}$ 12; $\alpha(\text{O})=1.522 \times 10^{-5}$ 22; $\alpha(\text{P})=9.06 \times 10^{-7}$ 13
8394.8	(65/2 ⁻)	257.8 4	100.0 26	8137.0	(63/2 ⁻)	(M1)	0.547	$\alpha(\text{K})=0.449$ 7; $\alpha(\text{L})=0.0751$ 11; $\alpha(\text{M})=0.0175$ 3 $\alpha(\text{N})=0.00438$ 7; $\alpha(\text{O})=0.000829$ 13; $\alpha(\text{P})=6.35 \times 10^{-5}$ 10
		556.5 8	58 7	7838.3	(61/2 ⁻)	(E2)	0.0209	$\alpha(\text{K})=0.01550$ 23; $\alpha(\text{L})=0.00410$ 6; $\alpha(\text{M})=0.001001$ 15 $\alpha(\text{N})=0.000250$ 4; $\alpha(\text{O})=4.48 \times 10^{-5}$ 7; $\alpha(\text{P})=2.06 \times 10^{-6}$ 3
8751.0	(67/2 ⁻)	356.1 6	100 5	8394.8	(65/2 ⁻)		0.226	
		614.0 8	61 8	8137.0	(63/2 ⁻)	(E2)	0.01669	$\alpha(\text{K})=0.01263$ 18; $\alpha(\text{L})=0.00310$ 5; $\alpha(\text{M})=0.000750$ 11 $\alpha(\text{N})=0.000187$ 3; $\alpha(\text{O})=3.38 \times 10^{-5}$ 5; $\alpha(\text{P})=1.675 \times 10^{-6}$ 24
8757.8	(67/2 ⁻)	426.9 8	50 5	8331.0	(65/2 ⁻)			
		837.8 8	100 5	7920.0	(63/2 ⁻)			
8886.8	(67/2 ⁺)	497.9 8	52.6 26	8388.8	(65/2 ⁺)	(M1)	0.0927	$\alpha(\text{K})=0.0764$ 12; $\alpha(\text{L})=0.01257$ 19; $\alpha(\text{M})=0.00292$ 5 $\alpha(\text{N})=0.000732$ 11; $\alpha(\text{O})=0.0001385$ 21; $\alpha(\text{P})=1.067 \times 10^{-5}$ 16
		962.0 8	100.0 26	7924.8	(63/2 ⁺)	(E2)	0.00651	$\alpha(\text{K})=0.00522$ 8; $\alpha(\text{L})=0.000992$ 14; $\alpha(\text{M})=0.000234$ 4 $\alpha(\text{N})=5.86 \times 10^{-5}$ 9; $\alpha(\text{O})=1.083 \times 10^{-5}$ 16; $\alpha(\text{P})=6.86 \times 10^{-7}$ 10
8978.1		1053.3 8	100	7924.8	(63/2 ⁺)			
9221.5	(69/2 ⁻)	470.6 8	100.0 21	8751.0	(67/2 ⁻)	(M1)	0.1076	$\alpha(\text{K})=0.0886$ 13; $\alpha(\text{L})=0.01461$ 22; $\alpha(\text{M})=0.00339$ 5 $\alpha(\text{N})=0.000850$ 13; $\alpha(\text{O})=0.0001610$ 24; $\alpha(\text{P})=1.240 \times 10^{-5}$ 19
		826.6 8	72.9 21	8394.8	(65/2 ⁻)	(E2)	0.00884	$\alpha(\text{K})=0.00698$ 10; $\alpha(\text{L})=0.001422$ 21; $\alpha(\text{M})=0.000339$ 5 $\alpha(\text{N})=8.46 \times 10^{-5}$ 12; $\alpha(\text{O})=1.554 \times 10^{-5}$ 22; $\alpha(\text{P})=9.21 \times 10^{-7}$ 13
9409.1	(69/2 ⁺)	522.2 ^h		8886.8	(67/2 ⁺)			
		1020.3 8	100 7	8388.8	(65/2 ⁺)			

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma \&$	E_f	J_f^π	Mult. ^b	α^d	Comments
9675.9	(71/2 ⁻)	454.4 8	57 5	9221.5	(69/2 ⁻)	(M1)	0.1181	$\alpha(\text{K})=0.0972$ 15; $\alpha(\text{L})=0.01604$ 24; $\alpha(\text{M})=0.00372$ 6
		924.9 8	100 5	8751.0	(67/2 ⁻)	(E2)	0.00704	$\alpha(\text{N})=0.000934$ 14; $\alpha(\text{O})=0.000177$ 3; $\alpha(\text{P})=1.361 \times 10^{-5}$ 21
								$\alpha(\text{K})=0.00562$ 8; $\alpha(\text{L})=0.001087$ 16; $\alpha(\text{M})=0.000257$ 4
								$\alpha(\text{N})=6.43 \times 10^{-5}$ 10; $\alpha(\text{O})=1.187 \times 10^{-5}$ 17; $\alpha(\text{P})=7.40 \times 10^{-7}$ 11
9923.1	(71/2 ⁺)	514.1 ^h		9409.1	(69/2 ⁺)			
		1036.3 10	100 13	8886.8	(67/2 ⁺)			
10290.4	(73/2 ⁻)	614.5 8	100 15	9675.9	(71/2 ⁻)	(M1)	0.0534	$\alpha(\text{K})=0.0440$ 7; $\alpha(\text{L})=0.00720$ 11; $\alpha(\text{M})=0.001670$ 24
		1068.9 8	63 11	9221.5	(69/2 ⁻)	(E2)	0.00530	$\alpha(\text{N})=0.000419$ 6; $\alpha(\text{O})=7.93 \times 10^{-5}$ 12; $\alpha(\text{P})=6.13 \times 10^{-6}$ 9
								$\alpha(\text{K})=0.00428$ 6; $\alpha(\text{L})=0.000781$ 11; $\alpha(\text{M})=0.000184$ 3
								$\alpha(\text{N})=4.59 \times 10^{-5}$ 7; $\alpha(\text{O})=8.53 \times 10^{-6}$ 12; $\alpha(\text{P})=5.61 \times 10^{-7}$ 8
10853.6	(75/2 ⁻)	563 ^h		10290.4	(73/2 ⁻)			
		1177.7 8	100 5	9675.9	(71/2 ⁻)	Q		
233.20+x	J+2	121.1 5		111.8+x	J+1			
		233.2 2	0.37 ^a 3	x	J			
365.8+x	J+3	132.2 ^f 5		233.20+x	J+2			
		254.0 ^f 2	0.12 ^a 5	111.8+x	J+1			
507.4+x	J+4	141.6 5		365.8+x	J+3			
		274.2 2	0.48 ^a 3	233.20+x	J+2			
660.4+x	J+5	152.9 ^f 5		507.4+x	J+4			
		294.6 ^f 2	0.38 ^a 8	365.8+x	J+3			
821.3+x	J+6	160.7 5		660.4+x	J+5			
		314.0 2	0.75 ^a 5	507.4+x	J+4			
995.3+x	J+7	173.7 ^f 5		821.3+x	J+6			
		334.9 ^f 2	0.61 ^a 9	660.4+x	J+5			
1174.7+x	J+8	179.3 5		995.3+x	J+7			
		353.4 2	0.90 ^a 5	821.3+x	J+6			
1369.8+x	J+9	374.5 ^f 2	0.73 ^a 18	995.3+x	J+7			
1566.6+x	J+10	196.9 5		1369.8+x	J+9			
		391.9 2	0.96 ^a 5	1174.7+x	J+8			
1782.9+x	J+11	413.1 ^f 2	1.00 ^a 12	1369.8+x	J+9			
1995.6+x	J+12	212.3 5		1782.9+x	J+11			
		429.0 2	1.00 ^a 5	1566.6+x	J+10			
2234.0+x	J+13	451.1 ^f 2		1782.9+x	J+11			
2460.1+x	J+14	226.4 5		2234.0+x	J+13			
		464.4 2	0.98 ^a 3	1995.6+x	J+12			
2722.3+x	J+15	488.3 ^f 2	0.96 ^a 18	2234.0+x	J+13			
2957.5+x	J+16	497.4 2	1.00 ^a 3	2460.1+x	J+14			
3247.2+x	J+17	524.9 ^f 2	0.98 ^a 20	2722.3+x	J+15			

This γ is a member of an unresolved doublet (the other member is 212.9 keV, from level 1783.9+Y).

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ †	I_γ &	E_f	J_f^π	Mult. ^b	α^d	Comments
3485.7+x	J+18	528.2 2	1.11 ^a 10	2957.5+x	J+16	[E2] ^c	0.0236	B(E2)(W.u.)=1.57×10 ³ 17 $\alpha(\text{K})=0.01731$ 25; $\alpha(\text{L})=0.00479$ 7; $\alpha(\text{M})=0.001172$ 17 $\alpha(\text{N})=0.000292$ 5; $\alpha(\text{O})=5.23\times 10^{-5}$ 8; $\alpha(\text{P})=2.30\times 10^{-6}$ 4
3807.1+x	J+19	559.9 ^f 2	1.08 ^a 10	3247.2+x	J+17			
4044.2+x	J+20	558.5 2	0.94 ^a 14	3485.7+x	J+18	[E2] ^c	0.0207	B(E2)(W.u.)=1.51×10 ³ 11 $\alpha(\text{K})=0.01538$ 22; $\alpha(\text{L})=0.00406$ 6; $\alpha(\text{M})=0.000990$ 14 $\alpha(\text{N})=0.000247$ 4; $\alpha(\text{O})=4.44\times 10^{-5}$ 7; $\alpha(\text{P})=2.04\times 10^{-6}$ 3
4402.0+x	J+21	594.9 ^f 2		3807.1+x	J+19			
4634.2+x	J+22	590.0 2	0.73 ^a 20	4044.2+x	J+20	[E2] ^c	0.0183	B(E2)(W.u.)=1.44×10 ³ +25-13 $\alpha(\text{K})=0.01371$ 20; $\alpha(\text{L})=0.00346$ 5; $\alpha(\text{M})=0.000842$ 12 $\alpha(\text{N})=0.000210$ 3; $\alpha(\text{O})=3.79\times 10^{-5}$ 6; $\alpha(\text{P})=1.82\times 10^{-6}$ 3
5030.8+x	J+23	628.8 ^f 2	0.85 ^a 8	4402.0+x	J+21			
5256.8+x	J+24	622.6 2		4634.2+x	J+22	[E2] ^c	0.01618	B(E2)(W.u.)=1.47×10 ³ 17 $\alpha(\text{K})=0.01227$ 18; $\alpha(\text{L})=0.00298$ 5; $\alpha(\text{M})=0.000721$ 11 $\alpha(\text{N})=0.000180$ 3; $\alpha(\text{O})=3.25\times 10^{-5}$ 5; $\alpha(\text{P})=1.628\times 10^{-6}$ 23
5692.5+x	J+25	661.7 ^f 2	0.52 ^a 12	5030.8+x	J+23			
5912.5+x	J+26	655.7 2	0.40 ^a 16	5256.8+x	J+24			
6386.6+x	J+27	694.1 ^f 2	0.56 ^a 15	5692.5+x	J+25			
6601.0+x	J+28	688.5 2	0.18 ^a 10	5912.5+x	J+26			
7112.2+x	J+29	725.6 ^f 2	0.45 ^a 19	6386.6+x	J+27			
7322.3+x	J+30	721.3 2	0.39 ^a 10	6601.0+x	J+28			
7868.8+x	J+31	756.6 ^f 2	0.38 ^a 10	7112.2+x	J+29			
8075.5+x	J+32	753.2 2	0.55 ^a 16	7322.3+x	J+30			
8656.1+x	J+33	787.3 ^f 2		7868.8+x	J+31			
8860.4+x	J+34	784.9 2		8075.5+x	J+32			
9473.8+x	J+35	817.7 ^f 3		8656.1+x	J+33			
9677.0+x	J+36	816.6 3		8860.4+x	J+34			
10321.3+x	J+37	847.5 ^f 4		9473.8+x	J+35			
10524.8+x	J+38	847.8 4		9677.0+x	J+36			
11197.4+x	J+39	876.1 ^f 5		10321.3+x	J+37			
11405.7+x	J+40	880.9 5		10524.8+x	J+38			
233.49+y	J1+2	122.6 5		111.9+y	J1+1			
		233.5 2	0.21 ^a 3	y	J1			
366.1+y	J1+3	132.2 ^f 5		233.49+y	J1+2			
		254.0 ^f 2	0.12 ^a 5	111.9+y	J1+1			
508.5+y	J1+4	142.7 5		366.1+y	J1+3			
		275.2 2	0.30 ^a 5	233.49+y	J1+2			
660.9+y	J1+5	152.9 ^f 5		508.5+y	J1+4			
		294.6 ^f 2	0.38 ^a 8	366.1+y	J1+3			

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)									
$E_i(\text{level})$	J_i^π	E_γ †	I_γ &	E_f	J_f^π	Mult. ^b	α^d	Comments	
823.5+y	J1+6	162.5 5 315.2 2	0.53 ^a 5	660.9+y 508.5+y	J1+5 J1+4				
996.0+y	J1+7	173.7 ^f 5 334.9 ^f 2	0.61 ^a 9	823.5+y 660.9+y	J1+6 J1+5				
1178.3+y	J1+8	182.6 5 354.9 2	0.78 ^a 5	996.0+y 823.5+y	J1+7 J1+6				
1370.6+y	J1+9	192.3 5 374.5 ^f 2	0.73 ^a 16	1178.3+y 996.0+y	J1+8 J1+7				
1572.1+y	J1+10	201.9 5 393.8 2	0.95 ^a 5	1370.6+y 1178.3+y	J1+9 J1+8				
1783.9+y	J1+11	212.9 5		1572.1+y	J1+10			This γ is a member of an unresolved doublet (the other member is 212.3 keV, from level 1995.6+X).	
2004.2+y	J1+12	413.1 ^f 2 220.5 5 432.1 2	1.00 ^a 12 1.02 ^a 8	1370.6+y 1783.9+y 1572.1+y	J1+9 J1+11 J1+10				
2235.0+y	J1+13	451.1 ^f 2		1783.9+y	J1+11				
2474.0+y	J1+14	469.8 2	1.00 ^a 8	2004.2+y	J1+12				
2723.3+y	J1+15	488.3 ^f 2	0.96 ^a 18	2235.0+y	J1+13				
2980.2+y	J1+16	506.2 2	1.00 ^a 14	2474.0+y	J1+14				
3248.2+y	J1+17	524.9 ^f 2	0.98 ^a 20	2723.3+y	J1+15	[E2] ^c	0.0240	B(E2)(W.u.)=1.47×10 ³ +22-14 $\alpha(\text{K})=0.01754$ 25; $\alpha(\text{L})=0.00488$ 7; $\alpha(\text{M})=0.001195$ 17 $\alpha(\text{N})=0.000298$ 5; $\alpha(\text{O})=5.33\times 10^{-5}$ 8; $\alpha(\text{P})=2.33\times 10^{-6}$ 4	
3521.7+y	J1+18	541.5 2	0.82 ^a 32	2980.2+y	J1+16				
3808.1+y	J1+19	559.9 ^f 2	1.08 ^a 10	3248.2+y	J1+17	[E2] ^c	0.0206	B(E2)(W.u.)=2.04×10 ³ +38-19 $\alpha(\text{K})=0.01530$ 22; $\alpha(\text{L})=0.00403$ 6; $\alpha(\text{M})=0.000983$ 14 $\alpha(\text{N})=0.000245$ 4; $\alpha(\text{O})=4.40\times 10^{-5}$ 7; $\alpha(\text{P})=2.03\times 10^{-6}$ 3	
4098.5+y	J1+20	576.8 2	0.63 ^a 24	3521.7+y	J1+18				
4403.0+y	J1+21	594.9 ^f 2		3808.1+y	J1+19	[E2] ^c	0.0179	B(E2)(W.u.)=1.38×10 ³ 12 $\alpha(\text{K})=0.01348$ 19; $\alpha(\text{L})=0.00338$ 5; $\alpha(\text{M})=0.000822$ 12 $\alpha(\text{N})=0.000205$ 3; $\alpha(\text{O})=3.70\times 10^{-5}$ 6; $\alpha(\text{P})=1.79\times 10^{-6}$ 3	
4709.8+y	J1+22	611.3 2	0.43 ^a 28	4098.5+y	J1+20				
5031.8+y	J1+23	628.8 ^f 2	0.85 ^a 8	4403.0+y	J1+21				
5354.1+y	J1+24	644.3 2		4709.8+y	J1+22				
5693.5+y	J1+25	661.7 ^f 2	0.52 ^a 12	5031.8+y	J1+23				
6031.9+y	J1+26	677.8 2		5354.1+y	J1+24				
6387.5+y	J1+27	694.1 ^f 2	0.56 ^a 15	5693.5+y	J1+25				
6741.8+y	J1+28	709.9 2		6031.9+y	J1+26				
7113.1+y	J1+29	725.6 ^f 2	0.45 ^a 19	6387.5+y	J1+27				
7484.0+y	J1+30	742.2 2		6741.8+y	J1+28				

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma^\&$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	E_γ^\dagger	$I_\gamma^\&$	E_f	J_f^π
7869.7+y	J1+31	756.6 ^f 2	0.38 ^a 10	7113.1+y	J1+29	7549.0+z	J2+28	769.7 4	0.46 ^a 4	6779.3+z	J2+26
8255.2+y	J1+32	771.2 3		7484.0+y	J1+30	8350.3+z	J2+30	801.3 5	0.36 ^a 3	7549.0+z	J2+28
8657.0+y	J1+33	787.3 ^f 2		7869.7+y	J1+31	9181.6+z	J2+32	831.3 5	0.21 ^a 4	8350.3+z	J2+30
9057.4+y	J1+34	802.2 4		8255.2+y	J1+32	10042.6+z?	J2+34	861 ^{@h}	0.15 ^a 3	9181.6+z	J2+32
9474.7+y	J1+35	817.7 ^f 3		8657.0+y	J1+33	240.52+u	J3+2	240.5 2	0.58 ^a 5	u	J3
9889.5+y	J1+36	832.1 5		9057.4+y	J1+34	522.4+u	J3+4	281.9 2	0.80 ^a 5	240.52+u	J3+2
10322.3+y	J1+37	847.5 ^f 4		9474.7+y	J1+35	845.9+u	J3+6	323.5 2	0.90 ^a 5	522.4+u	J3+4
10750.0+y	J1+38	860.5 5		9889.5+y	J1+36	1211.3+u	J3+8	365.4 2	1.00 ^a 5	845.9+u	J3+6
11198.4+y	J1+39	876.1 ^f 5		10322.3+y	J1+37	1617.8+u	J3+10	406.5 2	1.00 ^a 5	1211.3+u	J3+8
291.00+z	J2+2	291.0 2	0.17 ^a 3	z	J2	2065.3+u	J3+12	447.5 2	0.98 ^a 5	1617.8+u	J3+10
619.8+z	J2+4	328.8 2	0.72 ^a 4	291.00+z	J2+2	2553.4+u	J3+14	488.1 2	0.95 ^a 5	2065.3+u	J3+12
986.4+z	J2+6	366.6 2	0.87 ^a 5	619.8+z	J2+4	3081.4+u	J3+16	527.9 2	1.05 ^a 6	2553.4+u	J3+14
1391.4+z	J2+8	405.0 2	0.98 ^a 7	986.4+z	J2+6	3648.6+u	J3+18	567.2 2	1.00 ^a 6	3081.4+u	J3+16
1835.6+z	J2+10	444.2 2	1.00 ^a 7	1391.4+z	J2+8	4254.9+u	J3+20	606.3 2		3648.6+u	J3+18
2319.9+z	J2+12	484.3 2	1.00 ^a 5	1835.6+z	J2+10	4899.4+u	J3+22	644.5 2	0.90 ^a 10	4254.9+u	J3+20
2845.8+z	J2+14	525.9 2	0.98 ^a 6	2319.9+z	J2+12	5581.3+u	J3+24	681.9 2	0.70 ^a 6	4899.4+u	J3+22
3412.5+z	J2+16	566.7 2	0.98 ^a 8	2845.8+z	J2+14	6299.9+u	J3+26	718.6 2	0.60 ^a 6	5581.3+u	J3+24
4017.5+z	J2+18	605.0 2		3412.5+z	J2+16	7054.4+u	J3+28	754.5 2		6299.9+u	J3+26
4658.0+z	J2+20	640.5 2	0.82 ^a 7	4017.5+z	J2+18	7844.2+u	J3+30	789.8 2	0.42 ^a 5	7054.4+u	J3+28
5332.5+z	J2+22	674.5 2	0.80 ^a 7	4658.0+z	J2+20	8668.5+u	J3+32	824.3 3	0.26 ^a 5	7844.2+u	J3+30
6040.0+z	J2+24	707.5 2	0.72 ^a 7	5332.5+z	J2+22	9526.4+u	J3+34	857.9 5	0.24 ^a 5	8668.5+u	J3+32
6779.3+z	J2+26	739.3 2	0.61 ^a 7	6040.0+z	J2+24						

[†] From (HI,xn γ) data set for levels, unless otherwise noted. From (HI,xn γ):SD data set for γ 's in superdeformed bands.

[‡] From ¹⁹³Hg IT decay (11.8 h).

[#] From ¹⁹³Tl ϵ decay (21.6 min).

[@] Estimated (1998Ar07) from intensity plot (fig.1 in 1994Jo10).

[&] Relative photon branching from each level from (HI,xn γ), unless otherwise noted.

^a Relative intensity within the SD band.

^b From (HI,xn γ) and Pt(α ,xn γ) data sets, unless otherwise noted.

^c Multipolarity assumed by the evaluator on the basis of the band sequence, for the purpose of estimating transition probabilities for γ rays from levels with known half-life.

^d Additional information 5.

^e If No value given it was assumed $\delta=1.00$ for E2/M1, $\delta=1.00$ for E3/M2 and $\delta=0.10$ for the other multiplicities.

^f Multiply placed.

Adopted Levels, Gammas (continued) $\gamma({}^{193}\text{Hg})$ (continued)

^s Multiply placed with undivided intensity.

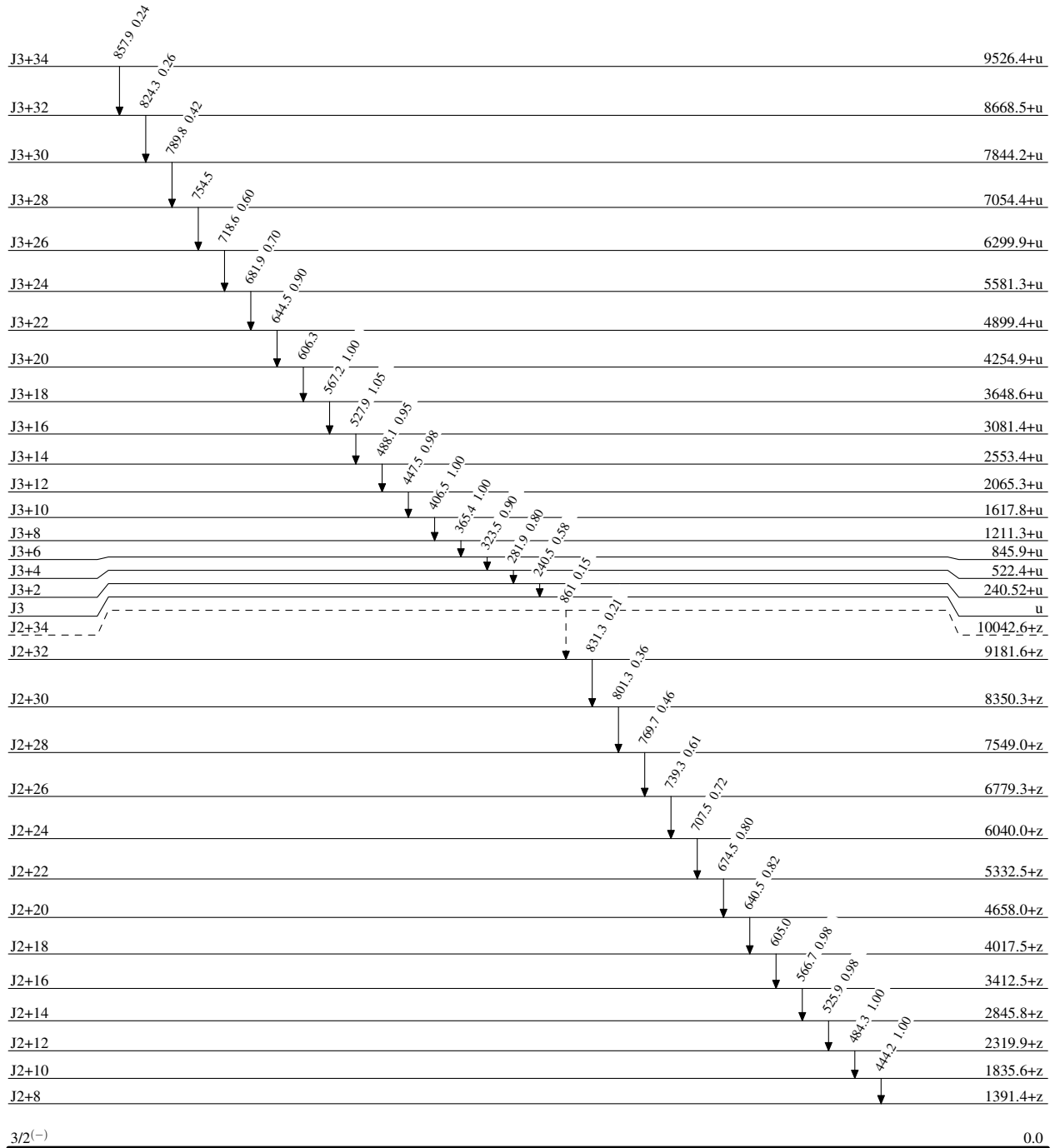
^h Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

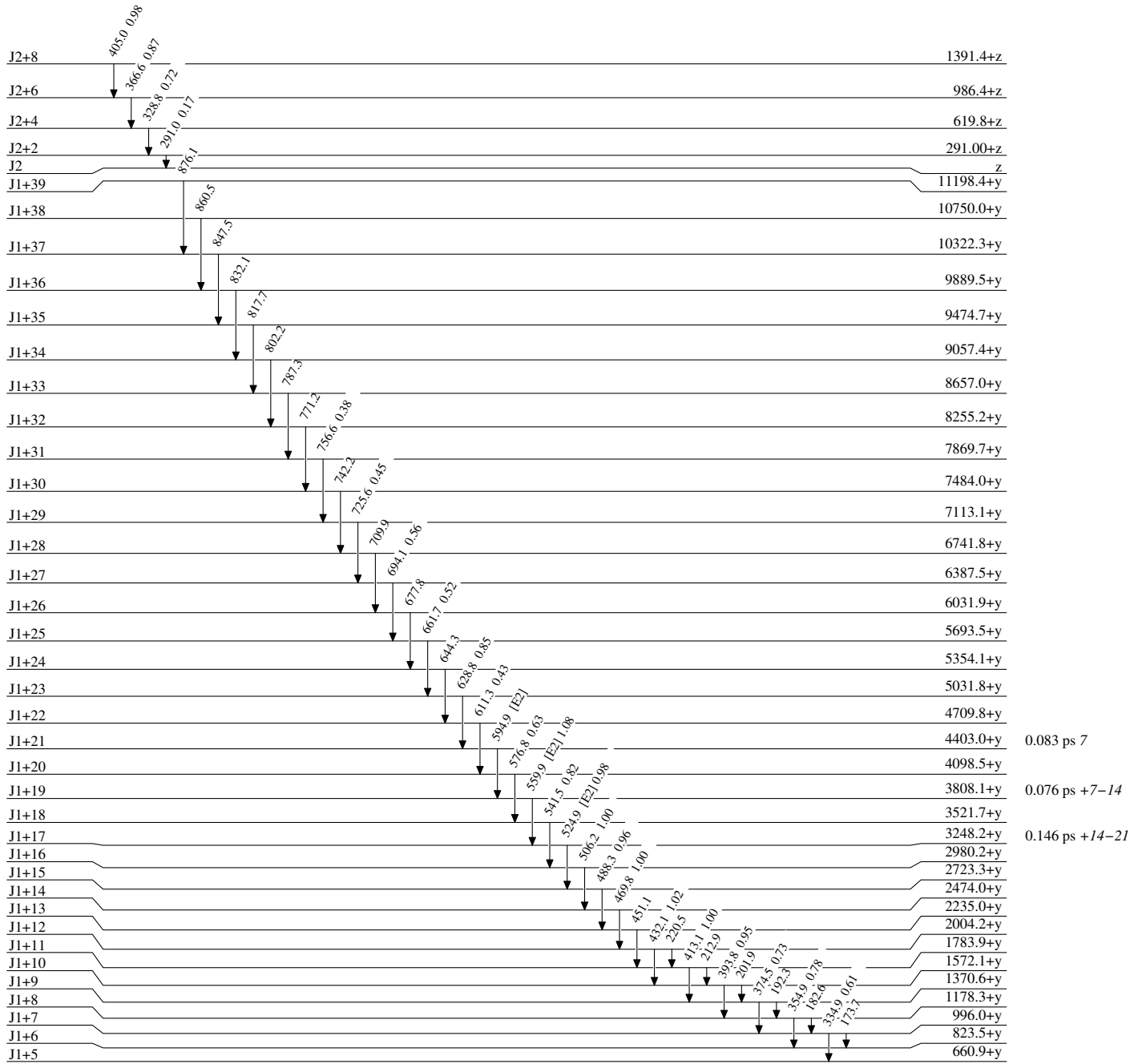
-----▶ γ Decay (Uncertain)

3.80 h 15

Adopted Levels, Gammas

Level Scheme (continued)

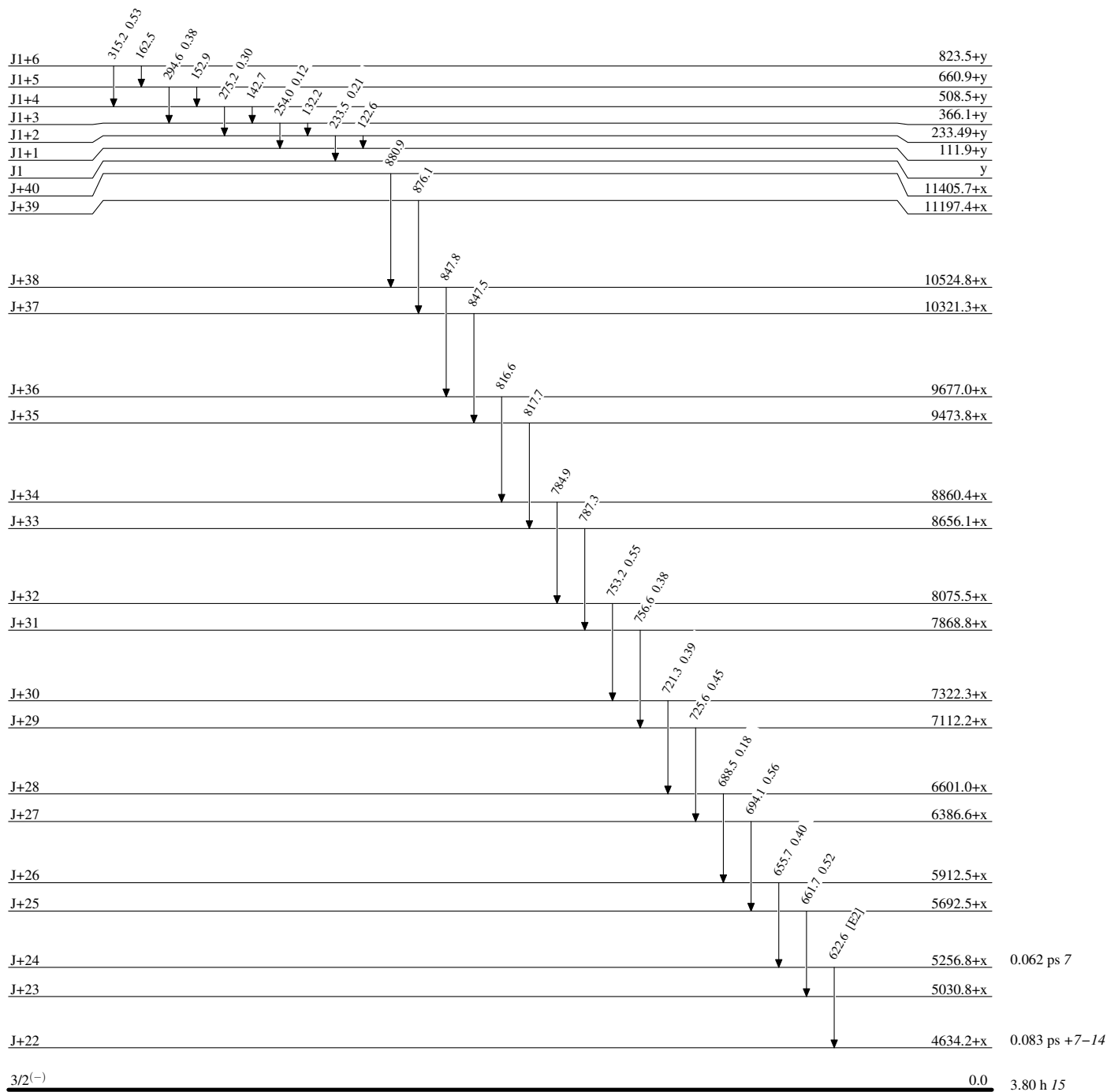
Intensities: Relative photon branching from each level



3/2(-) 0.0 3.80 h 15

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

Intensities: Relative photon branching from each level

 $^{193}\text{Hg}_{80}^{113}$

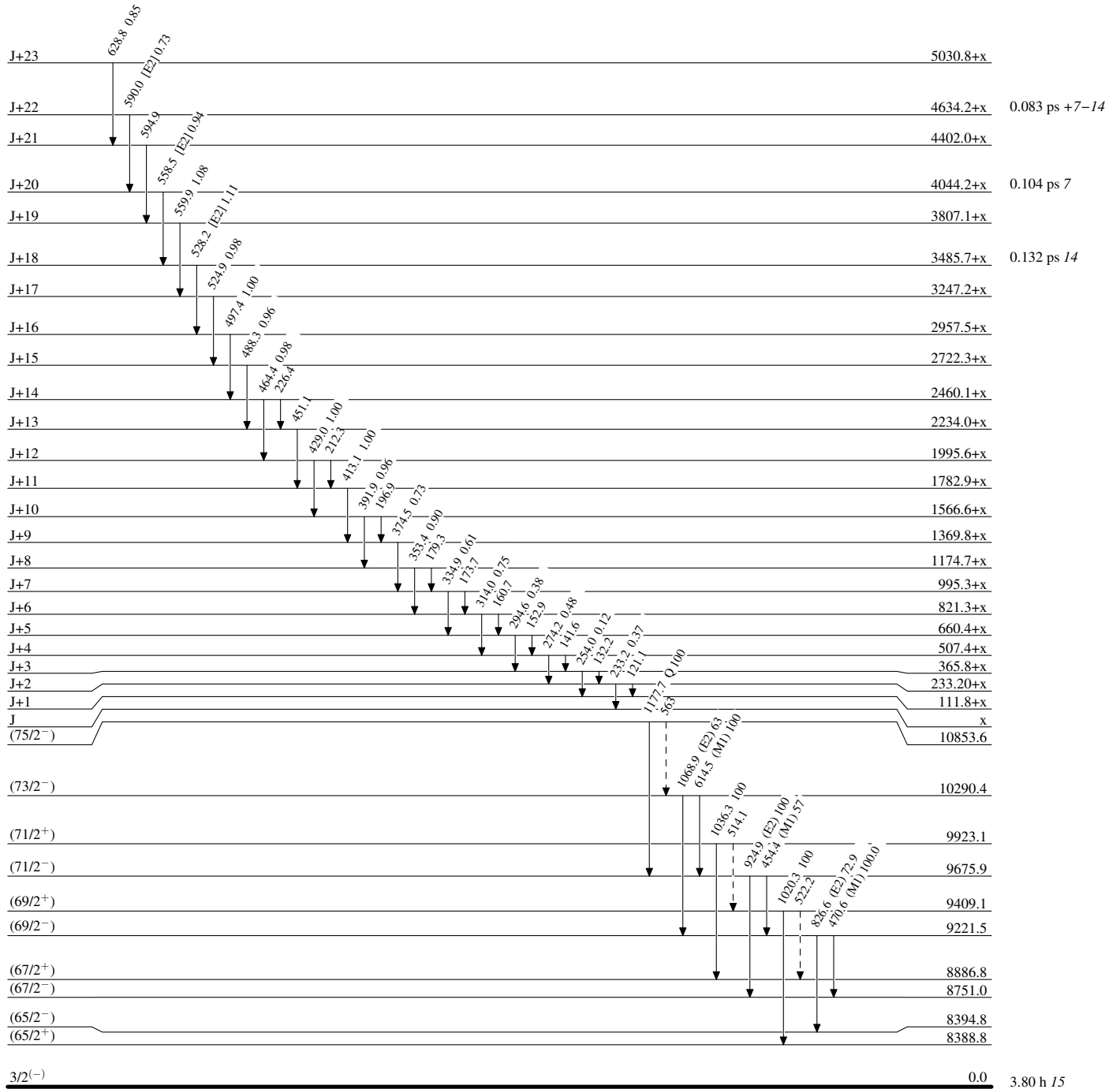
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)



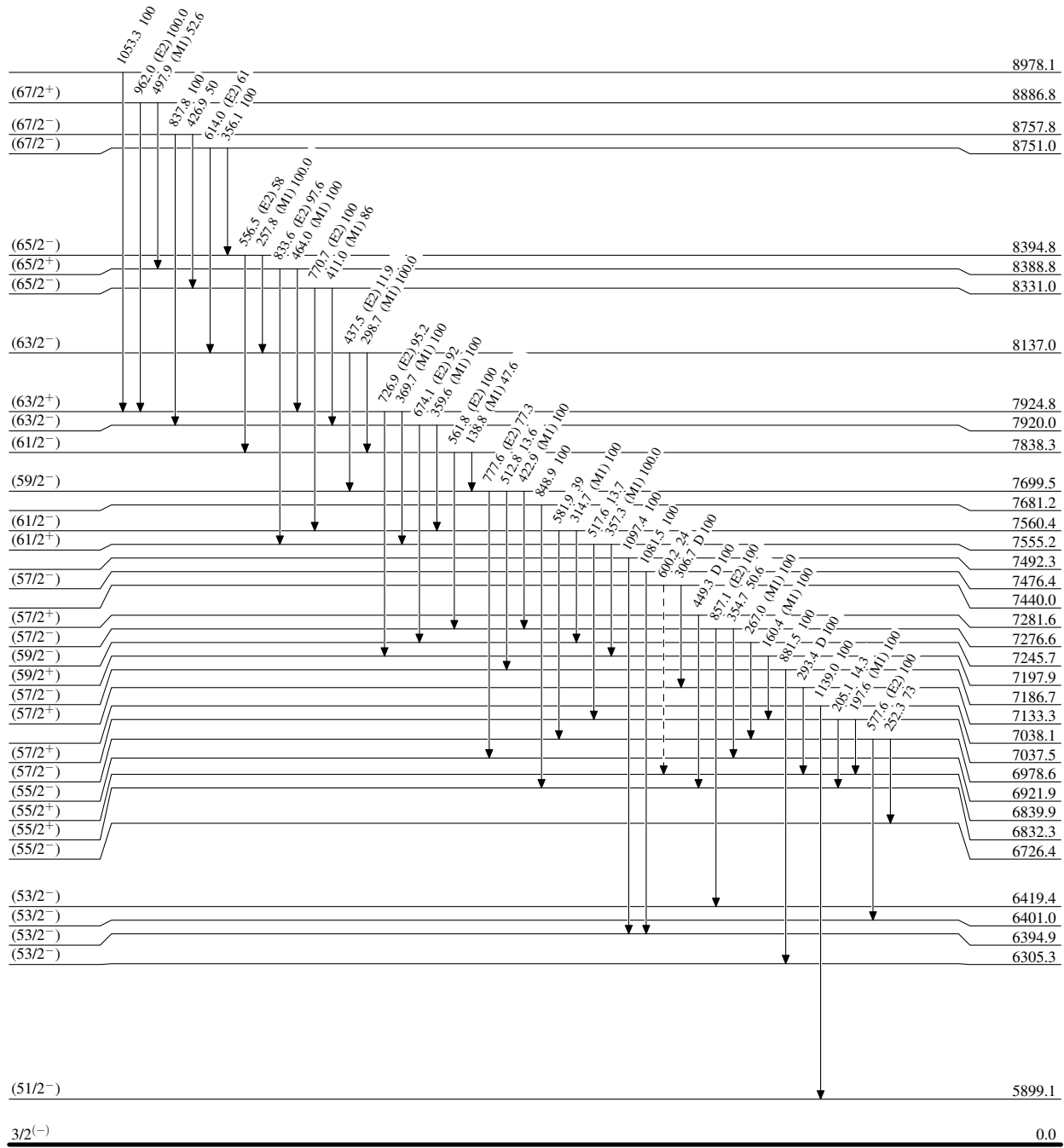
Adopted Levels, Gammas

Legend

Level Scheme (continued)

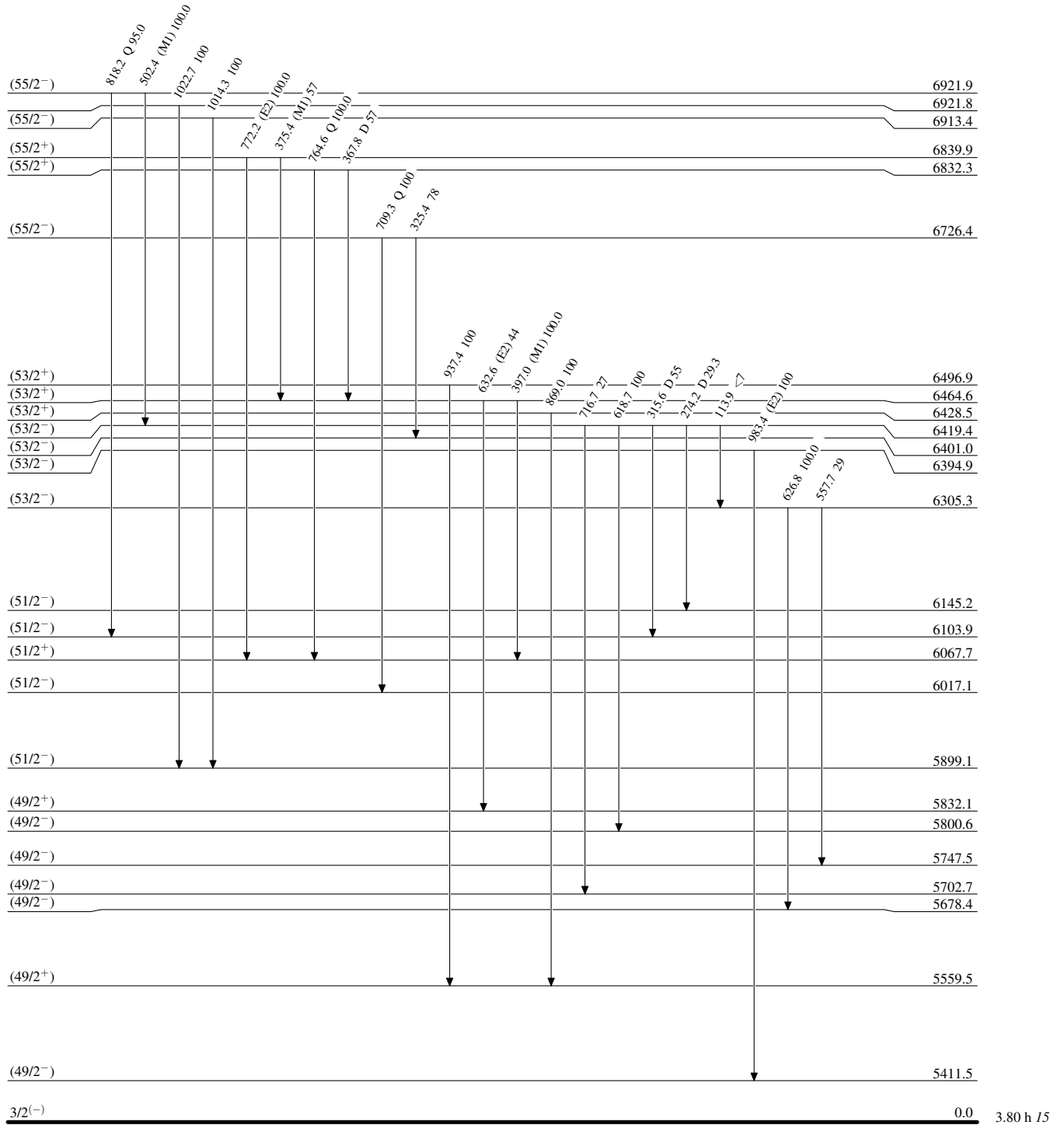
Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



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

Intensities: Relative photon branching from each level



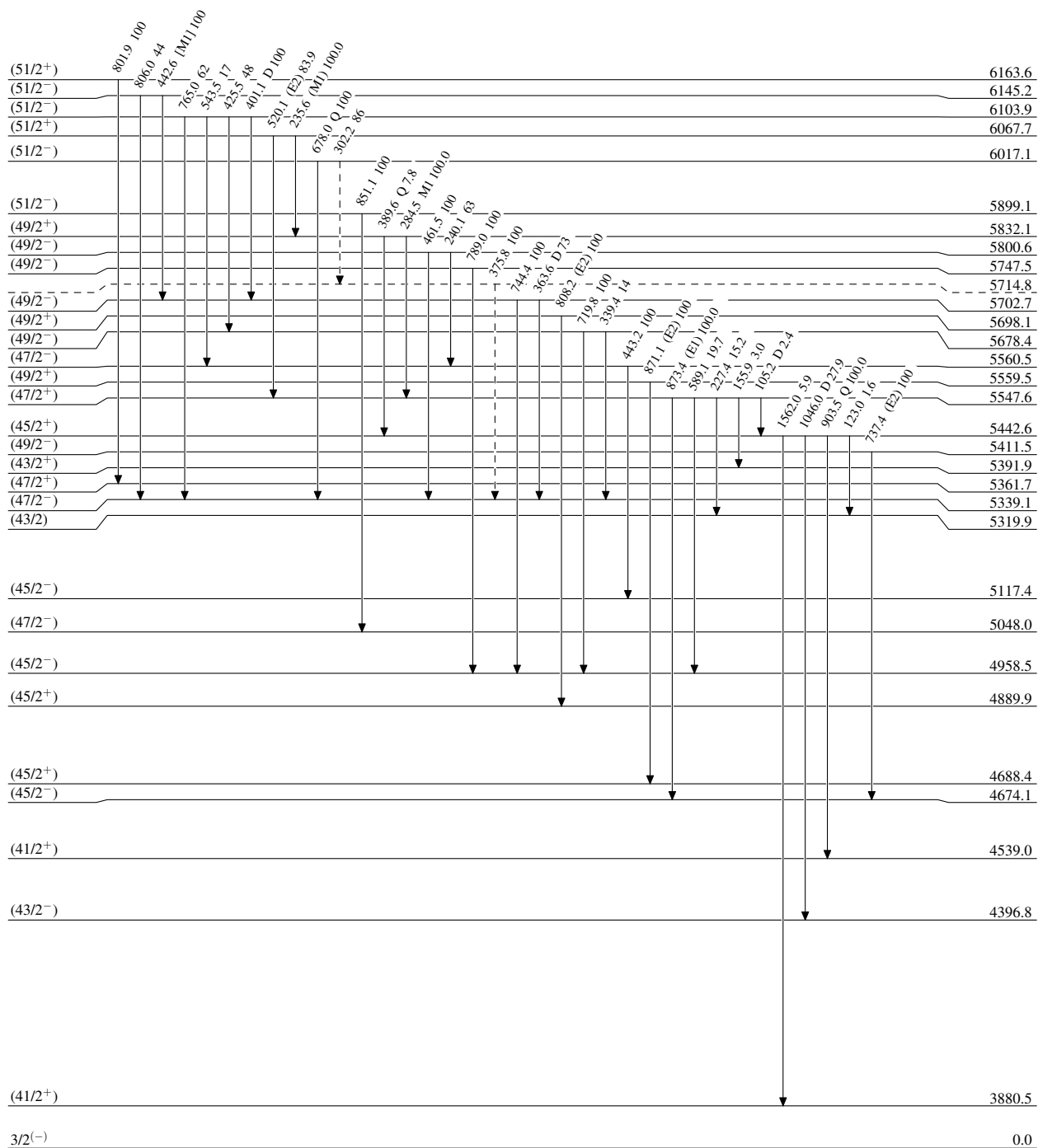
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



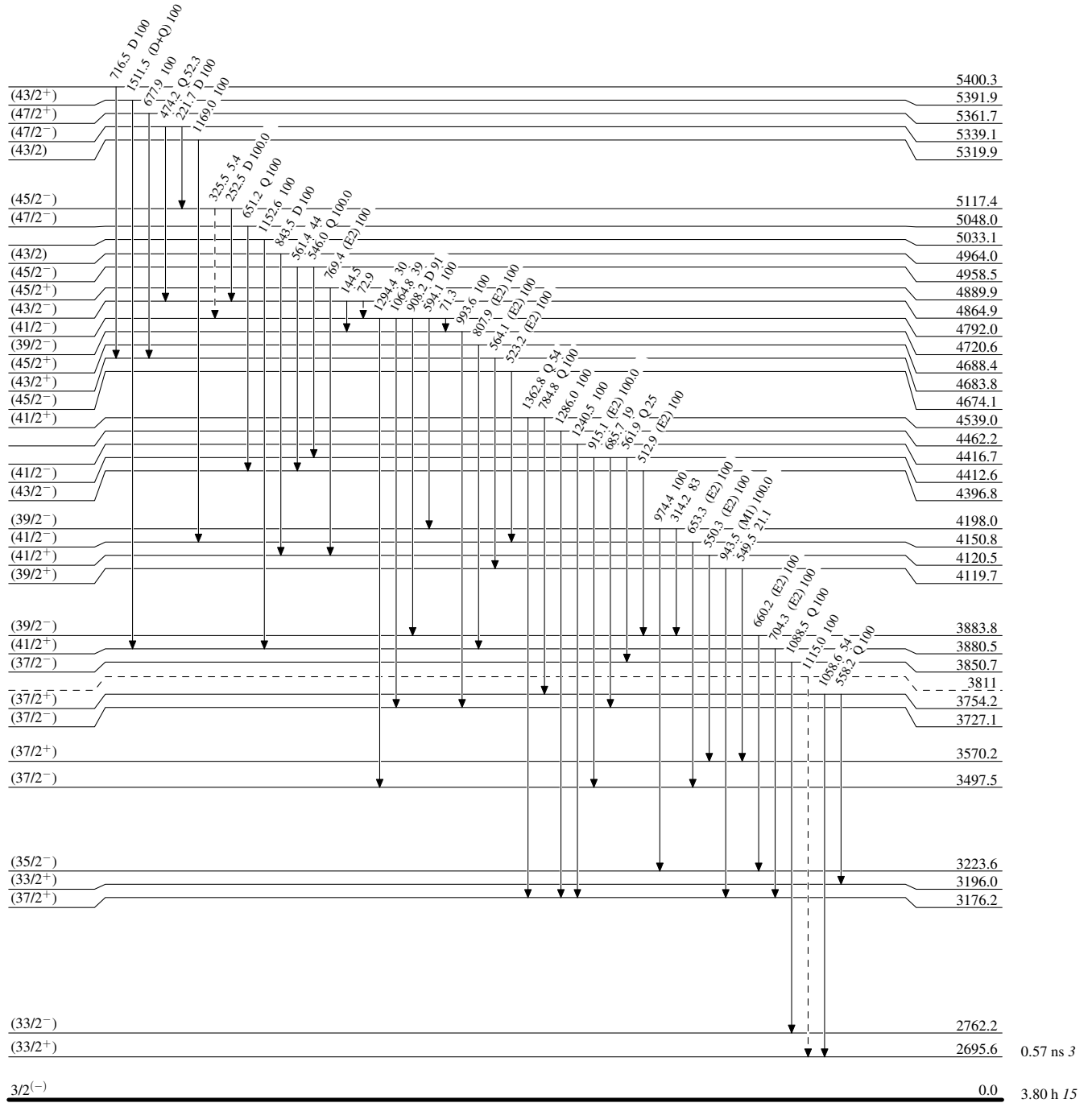
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

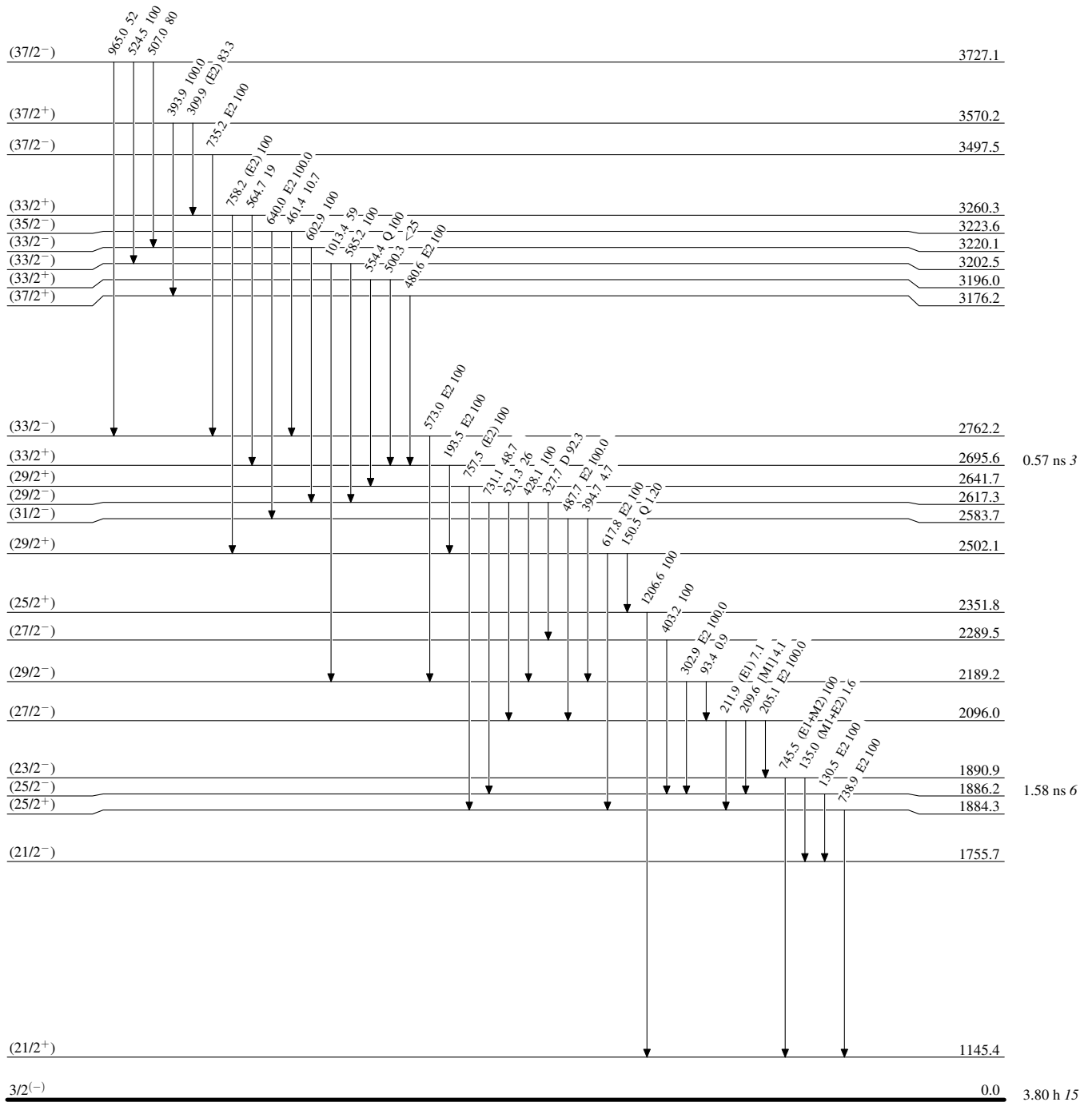
-----> γ Decay (Uncertain)



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



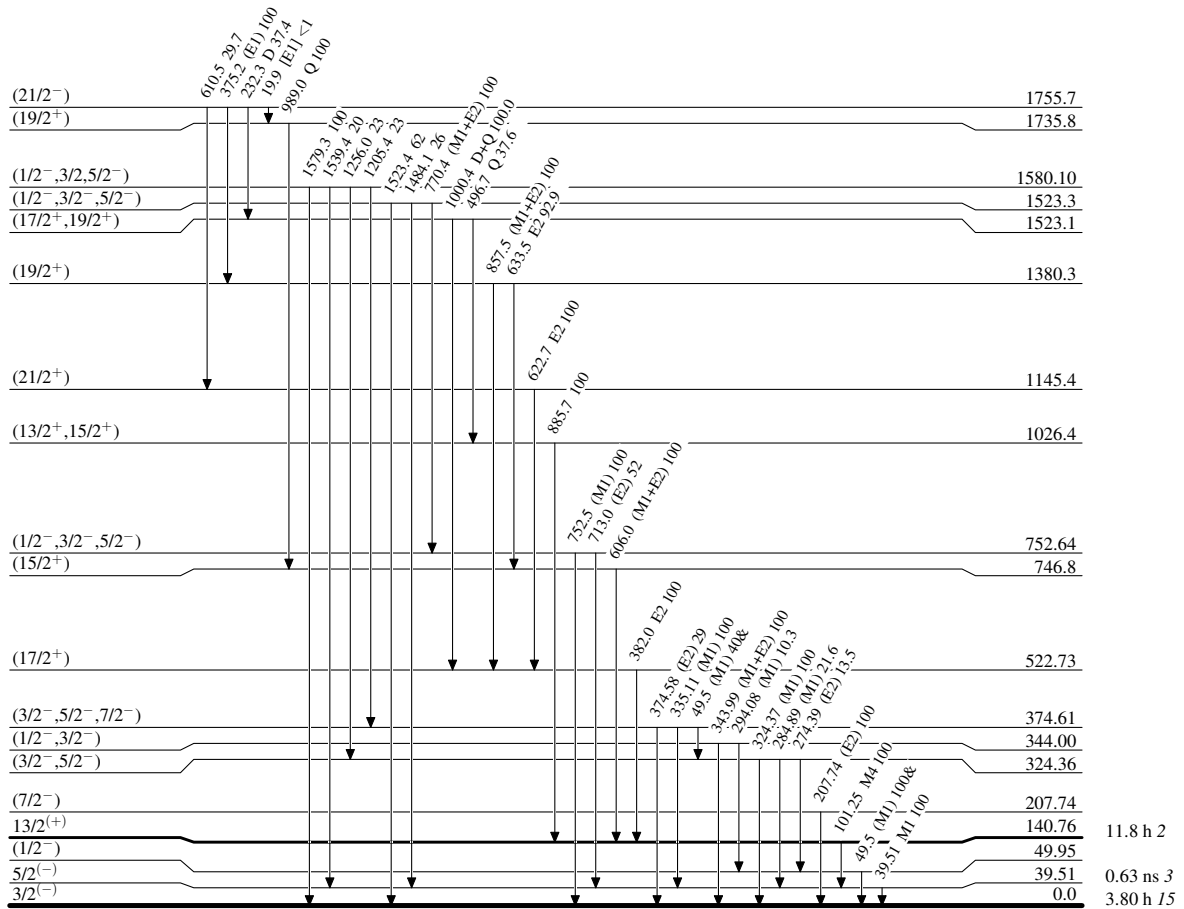
Adopted Levels, Gammas

Legend

Level Scheme (continued)

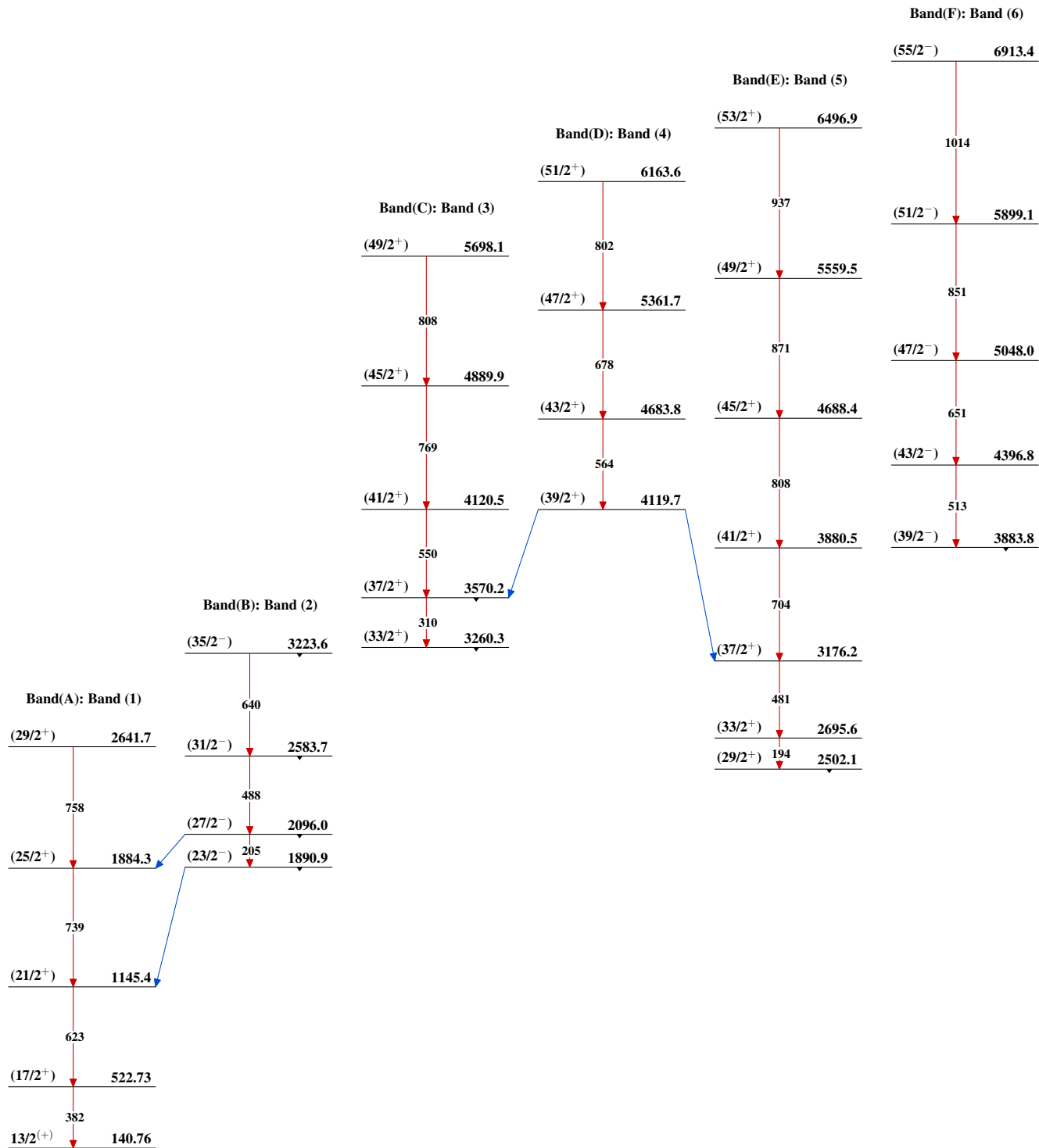
Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

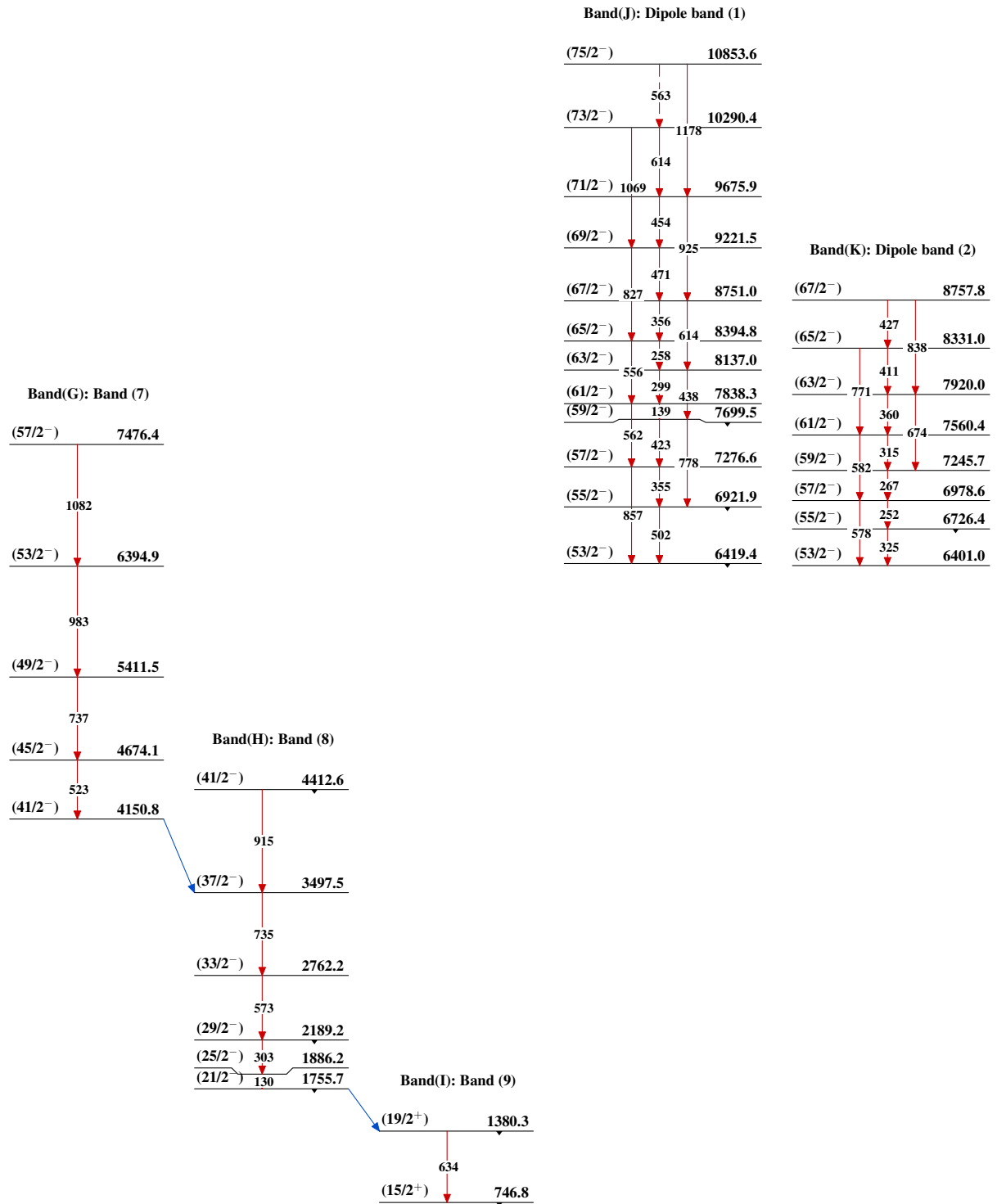
-----► γ Decay (Uncertain)



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11.8 h 2
0.63 ns 3
3.80 h 15

Adopted Levels, Gammas

Adopted Levels, Gammas (continued)

Adopted Levels, Gammas (continued)

Band(M): SD-1 Band: Possible configuration: [512]5/2, $\alpha=-1/2$		Band(N): SD-2 Band: Possible configuration: [512]5/2, $\alpha=+1/2$	
J+40	11405.7+x	J+39	11197.4+x
	881		876
J+38	10524.8+x	J+37	10321.3+x
	848		848
J+36	9677.0+x	J+35	9473.8+x
	817		818
J+34	8860.4+x	J+33	8656.1+x
	785		787
J+32	8075.5+x	J+31	7868.8+x
	753		757
J+30	7322.3+x	J+29	7112.2+x
	721		726
J+28	6601.0+x	J+27	6386.6+x
	688		694
J+26	5912.5+x	J+25	5692.5+x
	656		662
J+24	5256.8+x	J+23	5030.8+x
	623		629
J+22	4634.2+x	J+21	4402.0+x
	590		595
J+20	4044.2+x	J+19	3807.1+x
	558		560
J+18	3485.7+x	J+17	3247.2+x
	528		525
J+16	2957.5+x	J+15	2722.3+x
	497		488
J+14	2460.1+x	J+13	2234.0+x
	464		451
J+12	1995.6+x	J+11	1782.9+x
	429		413
J+10	1566.6+x	J+9	1369.8+x
	392		374
J+8	1174.7+x	J+7	995.3+x
	353		335
J+6	821.3+x	J+5	660.4+x
	314		295
J+4	507.4+x	J+3	365.8+x
	274		254
J+2	233.20+x	J+1	111.8+x
J	233		x

Band(L): Dipole band (3)

(71/2 ⁺)		9923.1
(69/2 ⁺)	514	9409.1
	1036	
(67/2 ⁺)	522	8886.8
	1020	
(65/2 ⁺)	498	8388.8
	962	
(63/2 ⁺)	464	7924.8
	834	
(61/2 ⁺)	370	7555.2
	727	
(59/2 ⁺)		7197.9
(57/2 ⁺)	160	7037.5
(55/2 ⁺)		6839.9
(53/2 ⁺)	375	6464.6
	772	
(51/2 ⁺)	397	6067.7
	633	
(49/2 ⁺)		5832.1
(47/2 ⁺)		5547.6

Adopted Levels, Gammas (continued)

Band(O): SD-3 Band: Possible configuration: [624]9/2, $\alpha=-1/2$		Band(P): SD-4 Band: Possible configuration: [624]9/2, $\alpha=+1/2$		Band(Q): SD-5 Band: configuration: (N=7, $\alpha=-1/2$)	
J1+38	10750.0+y	J1+39	11198.4+y	J2+34	10042.6+z
J1+36	860 9889.5+y	J1+37	876 10322.3+y	J2+32	861 9181.6+z
J1+34	832 9057.4+y	J1+35	848 9474.7+y	J2+30	831 8350.3+z
J1+32	802 8255.2+y	J1+33	818 8657.0+y	J2+28	801 7549.0+z
J1+30	771 7484.0+y	J1+31	787 7869.7+y	J2+26	770 6779.3+z
J1+28	742 6741.8+y	J1+29	757 7113.1+y	J2+24	739 6040.0+z
J1+26	710 6031.9+y	J1+27	726 6387.5+y	J2+22	708 5332.5+z
J1+24	678 5354.1+y	J1+25	694 5693.5+y	J2+20	674 4658.0+z
J1+22	644 4709.8+y	J1+23	662 5031.8+y	J2+18	640 4017.5+z
J1+20	611 4098.5+y	J1+21	629 4403.0+y	J2+16	605 3412.5+z
J1+18	577 3521.7+y	J1+19	595 3808.1+y	J2+14	567 2845.8+z
J1+16	542 2980.2+y	J1+17	560 3248.2+y	J2+12	526 2319.9+z
J1+14	506 2474.0+y	J1+15	525 2723.3+y	J2+10	484 1835.6+z
J1+12	470 2004.2+y	J1+13	488 2235.0+y	J2+8	444 1391.4+z
J1+10	432 1572.1+y	J1+11	451 1783.9+y	J2+6	405 986.4+z
J1+8	394 1178.3+y	J1+9	413 1370.6+y	J2+4	367 619.8+z
J1+6	355 823.5+y	J1+7	374 996.0+y	J2+2	329 291.00+z
J1+4	315 508.5+y	J1+5	335 660.9+y	J2	291 z
J1+2	275 233.49+y	J1+3	295 366.1+y		
J1	234 y	J1+1	254 111.9+y		

Adopted Levels, Gammas (continued)

Band(R): SD-6 Band:
configuration: (N=7,
 $\alpha=+1/2$)

J3+34	9526.4+u
	858
J3+32	8668.5+u
	824
J3+30	7844.2+u
	790
J3+28	7054.4+u
	754
J3+26	6299.9+u
	719
J3+24	5581.3+u
	682
J3+22	4899.4+u
	644
J3+20	4254.9+u
	606
J3+18	3648.6+u
	567
J3+16	3081.4+u
	528
J3+14	2553.4+u
	488
J3+12	2065.3+u
	448
J3+10	1617.8+u
	406
J3+8	1211.3+u
	365
J3+6	845.9+u
	324
J3+4	522.4+u
	282
J3+2	240.52+u
J3	240 u

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