Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	V. R. Vanin et al.	NDS 108, 2393 (2007)	1-Dec-2006

Q(β^-)=−4310 *24*; S(n)=7.29×10^3 *3*; S(p)=5.00×10^3 *3*; Q(α)=3.67×10^3 *4* 2012Wa38
Note: Current evaluation has used the following Q record.
Q(β^+)=3220 *40* keV (2003Au03).
Q(β^-)=−4312 *24*; S(n)=7294 *28*; S(p)=5001 *28*; Q(α)=3700 *40* 2003Au03

^{191}Hg Levels

Cross Reference (XREF) Flags

- A ^{191}Tl ε decay (5.22 min)
- B ^{194}Pt(α,7nγ)
- C (HI,xnγ)
- D (HI,xnγ):SD

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
0.0	3/2$^{(-)}$	49 min *10*	A	%ε+%β^+=100 No α decay: <5×10^{-6}% (1963Ka17). Jπ: J=3/2, from β-radiation detected optical pumping (1976Bo09). Systematics of g.s. Jπ in ^{187}Hg, ^{189}Hg, and ^{193}Hg. Parity from systematics and magnetic moment (Schmidt plot). $T_{1/2}$: from 1974Va19. Others: 1975UnZZ, 1976Bo09. μ=−0.618 *11* μ_N. Q=−0.80 *25* eb. μ,Q: radiative detection of optical pumping. Laser spectroscopy in resonance cells with fluorescence detection (includes Sternheimer correction) (1986Ul02,1989Ra17). RMS charge radius: 5.417 *4* fm (2004An14). Isotope shift: $\Delta<r^2>$ = −0.3041 *15* fm^2 (1986Ul02, relative to ^{198}Hg).
51.58 *20*	(5/2$^-$)[#]	0.42 ns *4*	A	$T_{1/2}$: from 1985Ab03, 1976BoYC in ^{191}Tl ε decay.
103.7 *4*	(1/2$^-$)		A	Jπ: 103γ M1+E2 to 3/2$^{(-)}$.
336.32 *17*	(5/2$^-$)[#]		A	
375.5 *3*	(3/2$^-$)		A	
377.9 *3*	(7/2$^-$)[#]		A	
430.4 *3*	(1/2$^-$,3/2$^-$,5/2$^-$)		A	
563.5 *4*	(7/2$^-$)[#]		A	
632.3 *4*	(9/2$^-$)[#]		A	
659.0 *4*	(9/2$^-$)		A	Jπ: 281γ M1+E2 to (7/2$^-$), 607γ E2 to (5/2$^-$).
691.7 *3*			A	
911.2 *4*			A	
952.1 *4*	(9/2$^-$)[#]		A	
997.1 *4*	(5/2$^-$,7/2$^-$,9/2$^-$)		A	
1016.2 *5*	(11/2$^-$)[#]		A	
1075.6 *8*			A	
1081.1 *8*			A	
1107.2 *5*	(7/2$^-$,9/2$^-$,11/2$^-$)		A	
1146.5 *5*			A	
1178.3 *9*			A	
1193.1 *5*			A	
1212.4 *8*			A	
1317.6 *9*	(5/2$^-$,7/2$^-$,9/2$^-$)		A	

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Adopted Levels, Gammas (continued)

^{191}Hg Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$	XREF	Comments
1319.6 *11*	(13/2$^-$)[#]		A	
1843.9 *11*			A	
2412.4 *21*			A	
2423.3 *11*			A	
2440.2 *9*			A	
2441.5 *11*			A	
2443.0 *15*			A	
2459.7 *10*			A	
2475.2 *21*			A	
2476.3 *11*			A	
2477.0 *11*			A	
2543.1 *15*			A	
0.0+x[&]	13/2$^{(+)}$	50.8 min *15*	ABC	%ε+%β^+=100 μ=−1.068 *5*; Q=+0.64 *25* Additional information 1. No IT decay. α decay limit: <5×10^{-6}% (1963Ka17). E(level): x≈130 keV expected from extrapolation of estimates for similar states in ^{193}Hg and ^{195}Hg. From precision atomic mass measurements a value of x=128 *8* keV can be deduced (2001Sc41). A value of 128 *22* keV has been adopted for the latest atomic mass evaluation (AME2003, 2003Au02). $T_{1/2}$: from 1971Be61. Others: 1954Gi04, 1955Sm42. J$^{\pi}$: optical quantum-beat spectroscopy (1979Kr11). Systematics of 13/2$^+$ state in neighboring odd-A mercury isotopes. μ=−1.068 *5* μ_N. Laser spectroscopy in resonance cells with fluorescence detection (1979Da06,1989Ra17). Q=+0.64 *25* eb. Laser spectroscopy in resonance cells with fluorescence detection (recalculation) (1986Ul02,1989Ra17). Original value: +0.76 *24* eb, includes Sternheimer correction (1979Da06). Isotope shift: $\Delta\langle r^2\rangle$ = −0.3037 *13* fm^2 (1986Ul02, relative to ^{198}Hg).
215.96+x *17*	(9/2)$^+$		A	
265.03+x *17*	(11/2)$^+$		A	
390.47+x[&] *24*	(17/2$^+$)		ABC	
534.7+x *5*			A	
535.21+x[a] *22*	(15/2$^+$)		ABC	
588.6+x *4*	(7/2)$^+$		A	
742.7+x *3*	(13/2)$^+$		A	
761.1+x *4*	(11/2)$^+$		A	
900.0+x *4*	(11/2,13/2)$^+$		A	
1019.3+x[&] *3*	(21/2$^+$)		BC	
1087.8+x *10*			A	
1105.7+x *7*			A	
1130.8+x *6*	(7/2,9/2,11/2$^+$)		A	
1133.3+x *5*			A	
1171.74+x[a] *24*	(19/2$^+$)		BC	
1207.6+x *11*			A	
1318.5+x *8*			A	
1434.2+x *10*			A	
1637.9+x[g] *3*	(21/2$^-$)		BC	
1688.4+x *11*			A	
1769.4+x[&] *4*	(25/2$^+$)		BC	
1804.5+x[g] *4*	(25/2$^-$)	0.72 ns *7*	BC	$T_{1/2}$: from 1978Me11 (see ^{194}Pt(α,^{7}nγ) dataset).
1861.8+x[e] *4*	(23/2$^-$)		C	

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Adopted Levels, Gammas (continued)

^{191}Hg Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$	XREF	Comments
2064.8+x[e] 4	(27/2$^-$)		C	
2123.5+x[g] 4	(29/2$^-$)		BC	
2286.4+x 11			A	
2299.5+x 20			A	
2302.9+x 11			A	
2307.5+x 12			A	
2310.4+x 11			A	
2315.1+x 11			A	
2329.0+x 8			A	
2335.4+x 11			A	
2340.2+x 14			A	
2351.9+x 11			A	
2356.4+x 10			A	
2358.8+x 8			A	
2361.6+x 8			A	
2406.0+x 20			A	
2408.9+x 15			A	
2431.5+x[b] 4	(29/2$^+$)		BC	
2545.0+x[e] 5	(31/2$^-$)		C	
2588.8+x[&] 5	(29/2$^+$)		C	
2594.8+x 5	(29/2$^-$)		C	
2598.5+x[b] 5	(33/2$^+$)	0.92 ns 6	BC	$T_{1/2}$: from 1978Me11 (see ^{194}Pt(α,^{7}nγ) dataset).
2643.4+x[j] 5	(33/2$^-$)		C	
2690.3+x[g] 5	(33/2$^-$)		BCD	
2935.4+x[c] 5	(29/2$^+$)		C	
3078.4+x[b] 5	(37/2$^+$)		BC	
3117.4+x 6	(33/2$^+$)		C	
3166.9+x[c] 5	(33/2$^+$)		C	
3222.2+x[e] 5	(35/2$^-$)		CD	
3252.8+x 5	(33/2$^-$)		C	
3428.8+x[g] 5	(37/2$^-$)		BC	
3487.6+x[c] 5	(37/2$^+$)		C	
3518.8+x[j] 6	(37/2$^-$)		C	
3728.0+x 5	(35/2)		C	
3792.6+x[b] 6	(41/2$^+$)		C	
3946.7+x 5	(37/2$^-$)		C	
3957.2+x[f] 5	(39/2$^-$)		C	
3969.0+x[e] 6	(39/2$^-$)		C	
3988.5+x[c] 6	(41/2$^+$)		C	
4140.8+x[i] 6	(41/2$^-$)		C	
4217.6+x[h] 6	(41/2$^-$)		C	
4276.0+x[j] 7	(41/2$^-$)		C	
4357.4+x[f] 6	(43/2$^-$)		C	
4382.5+x 6	(41/2$^-$)		C	
4491.9+x[d] 5	(41/2$^+$)		C	
4529.7+x 5	(39/2)		C	
4587.1+x 5	(41/2$^-$)		C	
4632.2+x[b] 6	(45/2$^+$)		C	
4653.7+x 6	(43/2$^-$)		C	
4667.3+x[c] 6	(45/2$^+$)		C	
4850.8+x[d] 6	(45/2$^+$)		C	

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Adopted Levels, Gammas (continued)

^{191}Hg Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF	Comments
4855.9+x *6*	(43/2$^-$)	C	
4894.9+x *6*	(45/2$^-$)	C	
4903.5+x *6*	(45/2)	C	
4957.7+x[h] *12*		C	
5006.5+x[f] *7*	(47/2$^-$)	C	
5027.8+x[i] *7*	(45/2$^-$)	C	
5072.0+x[j] *8*	(45/2$^-$)	C	
5128.2+x *7*	(47/2)	C	
5142.5+x *6*	(45/2$^-$)	C	
5296.1+x *6*	(47/2$^-$)	C	
5427.2+x[c] *7*	(49/2$^+$)	C	
5506.6+x *6*	(47/2$^-$)	C	
5533.9+x[d] *6*	(49/2$^+$)	C	
5553.3+x[b] *7*	(49/2$^+$)	C	
5653.8+x *6*	(49/2$^-$)	C	
5795.7+x[f] *7*	(51/2$^-$)	C	
5802.8+x[h] *12*		C	
6025.4+x[i] *7*		C	
6085.3+x *6*	(51/2$^-$)	C	
6230.7+x[c] *7*	(53/2$^+$)	C	
6333.6+x[d] *7*	(53/2$^+$)	C	
6459.6+x *6*	(53/2)	C	
6520.6+x[b] *7*	(53/2$^+$)	C	
6678.2+x[f] *8*	(55/2$^-$)	C	
6936.5+x *7*	(55/2$^-$)	C	
7077.3+x[c] *8*	(57/2$^+$)	C	
7227.0+x *7*	(57/2$^-$)	C	
7527.8+x *8*	(59/2)	C	
7670.7+x[f] *9*		C	
7689.9+x *8*	(59/2)	C	
7697.0+x *9*		C	
7987.4+x *8*	(61/2)	C	
8351.8+x *8*	(63/2)	C	
8668.9+x *8*		C	
y[k]	J≈(31/2)[@]	D	Additional information 2. E(level): y=5689+x (2004Si19,1999SiZZ). See comment for 310.9+y level. J$^{\pi}$: 31/2 from linking transitions reported in 2004Si19,1998ReZV,1999SiZZ.
310.9+y[k] *7*	J+2	D	E(level): 6000+x from observation of two linking transitions to normal deformed bands: 2778γ (to 3222+x, 35/2$^-$) and 3310γ (to 2690+x, 33/2$^-$) (2004Si19,1998ReZV,1999SiZZ).
662.4+y[k] *7*	J+4	D	
1054.0+y[k] *9*	J+6	D	
1485.3+y[k] *9*	J+8	D	
1955.4+y[k] *9*	J+10	D	
2463.8+y[k] *9*	J+12	D	
3009.7+y[k] *9*	J+14	D	
3592.1+y[k] *9*	J+16	D	
4210.6+y[k] *9*	J+18	D	
4864.3+y[k] *9*	J+20	D	

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Adopted Levels, Gammas (continued)

^{191}Hg Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF	Comments
5552.6+y[k] *10*	J+22	D	
6274.8+y[k] *10*	J+24	D	
7030.4+y[k] *11*	J+26	D	
7819.2+y[k] *12*	J+28	D	
z[l]	J1≈(21/2)[@]	D	Additional information 3. Q(intrinsic)≈18 (1990Ca18).
252.4+z[l] *7*	J1+2	D	
545.1+z[l] *7*	J1+4	D	
878.2+z[l] *8*	J1+6	D	
1250.9+z[l] *8*	J1+8	D	
1662.7+z[l] *8*	J1+10	D	
2113.0+z[l] *8*	J1+12	D	
2601.1+z[l] *8*	J1+14	D	
3126.3+z[l] *8*	J1+16	D	
3687.9+z[l] *9*	J1+18	D	
4285.1+z[l] *9*	J1+20	D	
4917.2+z[l] *9*	J1+22	D	
5583.4+z[l] *10*	J1+24	D	
6283.3+z[l] *10*	J1+26	D	
7016.0+z[l] *11*	J1+28	D	
7781.2+z[l] *11*	J1+30	D	
8577.7+z[l] *13*	J1+32	D	
u[m]	J2≈(23/2)[@]	D	Additional information 4.
272.0+u[m] *10*	J2+2	D	
585.1+u[m] *11*	J2+4	D	
937.6+u[m] *11*	J2+6	D	
1329.1+u[m] *11*	J2+8	D	
1758.8+u[m] *11*	J2+10	D	
2225.9+u[m] *12*	J2+12	D	
2729.8+u[m] *12*	J2+14	D	
3269.5+u[m] *12*	J2+16	D	
3844.5+u[m] *12*	J2+18	D	
4454.0+u[m] *12*	J2+20	D	
5096.7+u[m] *12*	J2+22	D	
5772.8+u[m] *13*	J2+24	D	
6481.3+u[m] *13*	J2+26	D	
7221.3+u[m] *13*	J2+28	D	
7992.6+u[m] *14*	J2+30	D	
8793.2+u[m] *17*	J2+32	D	
v[n]	J3≈(25/2)[@]	D	Additional information 5.
280.9+v[n] *6*	J3+2	D	
604.5+v[n] *7*	J3+4	D	
971.6+v[n] *7*	J3+6	D	
1381.9+v[n] *8*	J3+8	D	
1834.5+v[n] *9*	J3+10	D	
2328.6+v[n] *9*	J3+12	D	
2864.0+v[n] *9*	J3+14	D	
3439.0+v[n] *10*	J3+16	D	
4053.3+v[n] *11*	J3+18	D	

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Adopted Levels, Gammas (continued)

^{191}Hg Levels (continued)

E(level)[†]	Jπ[‡]	XREF
4704.1+v^{n} *13*	J3+20	D
5391.7+v^{n} *15*	J3+22	D
6114.9+v^{n} *17*	J3+24	D
6870.9+v^{n} *21*	J3+26	D
7659.9+v^{n} *25*	J3+28	D

† From least-squares fit to adopted γ-ray energies. Doubtful levels from ^{191}Tl ε decay (e.g., levels based only on doubtful coincidences of γ rays with uncertain placement in the level scheme (1988WoZZ)) are not included in this list.

‡ Spin and parity assignments are based on band structure, on γ-ray multipolarities and decay patterns, and on energy systematics of levels with known Jπ in other odd-A Hg isotopes. Most of the bands from (HI,xnγ) have been interpreted in terms of the cranking shell model assuming oblate nuclear deformation (1992Ye01). Bands are labeled by parity and signature (π,a). Specific arguments are given with some of the individual levels.

Jπ assignment is based on γ-ray multipolarities, and on the energy systematics of levels with known Jπ in odd-A Hg isotopes (1979WoZU,1976GoZP).

@ From least-squares fit to rotational-model formula (1990Be37,1992Wu01).

& Band(A): Band 1 (π,α)=(+,+1/2) Conf=i13/2.

a Band(B): Band 2 (π,α)=(+,−1/2).

b Band(C): Band 3 (π,α)=(+,+1/2) Aligned band.

c Band(D): Band 4 (π,α)=(+,+1/2).

d Band(E): Band 5 (π,α)=(+,+1/2).

e Band(F): Band 6 (π,α)=(-,−1/2).

f Band(G): Band 7 (π,α)=(-,−1/2).

g Band(H): Band 8 (π,α)=(-,+1/2).

h Band(I): Band 9 (π,α)=(-,+1/2).

i Band(J): Band 10 (π,α)=(-,+1/2).

j Band(K): Terminating band.

k Band(L): SD-1 band (1995So17,1995Ca15,1989Mo08). Q(intrinsic)=18 *3*; β_2=0.55 (1990Ca18), 17.5 *8* (1998ReZV). Favored j15/2 intruder orbitals (α=−1/2). Percent population=2.0 *3* (1995So17), 1.2 *6* (1995So17 in (^{64}Ni,3nγ)), 2 (1989Mo08). 2004Si19, 1999SiZZ (also 1998SiZZ,1998ReZV) propose the lowest SD member at 5689 from the observation of two linking transitions of 2778 and 3310 keV, from the second member of this band to ND levels at 3222+x and 2690+x, respectively.

l Band(M): SD-2 band Q(intrinsic)≈18 (1990Ca18), 17.5 *8* (1998ReZV). Unfavored signature of 3/2[642] or favored signature of 1/2[640] (1995Ca15). Percent population=0.8 *4* (^{64}Ni,3nγ) (1995So17), 0.8 *1* (^{36}S,5nγ) (1995So17), 1 (1990Ca18).

m Band(N): SD-3 band (1995So17,1995Ca15,1990Ca18). Favored signature of 3/2[642] Percent population=0.8 *4* (^{64}Ni,3nγ) (1995So17), 0.8 *3* (^{36}S,5nγ) (1995So17), 1 (1990Ca18).

n Band(O): SD-4 band Unfavored j15/2 intruder orbitals. Percent population=0.2 (1995Ca15).

Adopted Levels, Gammas (continued)

γ(^{191}Hg)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	δ[#]	α[d]	Comments
51.58	(5/2⁻)	51.6[‡] *3*	100[‡]	0.0	3/2(−)	M1+E2	0.624	39.8 *12*	B(M1)(W.u.)=0.0067 *7*; B(E2)(W.u.)=3.9×10^2 *4* α(L)=30.0 *9*; α(M)=7.65 *24*; α(N+..)=2.22 *7* α(N)=1.90 *6*; α(O)=0.321 *10*; α(P)=0.00491 *12*
103.7	(1/2⁻)	103.5[‡] *4*	100[‡]	0.0	3/2(−)	M1+E2	0.52 *20*	6.7 *4*	α(K)=4.7 *7*; α(L)=1.5 *3*; α(M)=0.36 *8*; α(N+..)=0.106 *22* α(N)=0.089 *19*; α(O)=0.016 *3*; α(P)=0.00069 *10*
336.32	(5/2⁻)	284.7[‡] *3*	10.0[‡] *10*	51.58	(5/2⁻)	M1(+E2)		0.27 *15*	α(K)=0.21 *14*; α(L)=0.048 *9*; α(M)=0.0117 *16*; α(N+..)=0.0035 *6* α(N)=0.0029 *4*; α(O)=0.00053 *10*; α(P)=2.9×10^{-5} *20*
		336.3[‡] *2*	100[‡] *6*	0.0	3/2(−)	M1+E2	1.5 *4*	0.13 *3*	α(K)=0.100 *25*; α(L)=0.0259 *22*; α(M)=0.0063 *5*; α(N+..)=0.00188 *14* α(N)=0.00158 *12*; α(O)=0.000284 *25*; α(P)=1.4×10^{-5} *4*
375.5	(3/2⁻)	271.4[‡] *5*	4.4[‡] *21*	103.7	(1/2⁻)				
		324.1[‡] *10*	≈12[‡]	51.58	(5/2⁻)				
		375.7[‡] *4*	100[‡] *18*	0.0	3/2(−)	M1		0.196	α(K)=0.1613 *23*; α(L)=0.0268 *4*; α(M)=0.00622 *9*; α(N+..)=0.00188 *3* α(N)=0.001560 *23*; α(O)=0.000295 *5*; α(P)=2.27×10^{-5} *4*
377.9	(7/2⁻)	41.7[‡]	≈6.5[‡]	336.32	(5/2⁻)				
		326.3[‡] *3*	100[‡] *5*	51.58	(5/2⁻)	M1+E2	0.93 *20*	0.192 *24*	α(K)=0.150 *22*; α(L)=0.0321 *19*; α(M)=0.0077 *4*; α(N+..)=0.00230 *12* α(N)=0.00192 *10*; α(O)=0.000353 *21*; α(P)=2.1×10^{-5} *3*
		378.0[‡] *10*	≈13[‡]	0.0	3/2(−)				
430.4	(1/2⁻,3/2⁻,5/2⁻)	378.8[‡] *10*	100[‡]	51.58	(5/2⁻)				
		430.4[‡] *4*	29[‡] *4*	0.0	3/2(−)	M1+E2	0.8 *8*	0.10 *4*	α(K)=0.08 *4*; α(L)=0.015 *4*; α(M)=0.0035 *8*; α(N+..)=0.00105 *25* α(N)=0.00088 *21*; α(O)=0.00016 *5*; α(P)=1.1×10^{-5} *5*
563.5	(7/2⁻)	227.1[‡] *5*	5.1[‡] *24*	336.32	(5/2⁻)				
		563.5[‡] *5*	100[‡] *4*	0.0	3/2(−)	E2		0.0203	α(K)=0.01509 *22*; α(L)=0.00395 *6*; α(M)=0.000964 *14*; α(N+..)=0.000286 *4* α(N)=0.000241 *4*; α(O)=4.32×10^{-5} *7*; α(P)=2.00×10^{-6} *3*
632.3	(9/2⁻)	254.3[‡] *7*	≈7[‡]	377.9	(7/2⁻)				
		580.7[‡] *4*	100[‡] *4*	51.58	(5/2⁻)	E2		0.0189	α(K)=0.01417 *20*; α(L)=0.00363 *6*; α(M)=0.000882 *13*; α(N+..)=0.000262 *4* α(N)=0.000220 *4*; α(O)=3.96×10^{-5} *6*; α(P)=1.88×10^{-6} *3*

$^{191}_{80}Hg_{111}$-7

Adopted Levels, Gammas (continued)

γ(^{191}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	δ[#]	α[d]	Comments
659.0	(9/2⁻)	281.2[‡] *4*	77[‡] *8*	377.9	(7/2⁻)	M1+E2	0.7 *4*	0.33 *8*	α(K)=0.26 *7*; α(L)=0.053 *5*; α(M)=0.0127 *8*; α(N+..)=0.0038 *3* α(N)=0.00318 *21*; α(O)=0.00059 *5*; α(P)=3.7×10^{-5} *10*
		322.8[‡] *10*	≈27[‡]	336.32	(5/2⁻)				
		607.4[‡] *5*	100[‡] *10*	51.58	(5/2⁻)	E2		0.01710	α(K)=0.01291 *19*; α(L)=0.00319 *5*; α(M)=0.000774 *11*; α(N+..)=0.000230 *4* α(N)=0.000193 *3*; α(O)=3.49×10^{-5} *5*; α(P)=1.713×10^{-6} *25*
691.7		261.5[‡] *4*	10.1[‡] *25*	430.4	(1/2⁻,3/2⁻,5/2⁻)				
		354.8[‡] *5*	7[‡] *3*	336.32	(5/2⁻)				
		640.2[‡] *5*	100[‡] *10*	51.58	(5/2⁻)				
		692.3[‡][f] *7*	31[‡] *8*	0.0	3/2$^{(-)}$				
911.2		480.5[‡] *6*	52[‡] *20*	430.4	(1/2⁻,3/2⁻,5/2⁻)				
		533.5[‡] *6*	50[‡] *12*	377.9	(7/2⁻)				
		535.5[‡] *10*	≈100[‡]	375.5	(3/2⁻)				
		575.7[‡] *10*	40[‡] *12*	336.32	(5/2⁻)				
952.1	(9/2⁻)	521.7[‡] *10*	≈29[‡]	430.4	(1/2⁻,3/2⁻,5/2⁻)				
		615.8[‡] *4*	100[‡] *12*	336.32	(5/2⁻)	(E2)		0.01658	α(K)=0.01255 *18*; α(L)=0.00307 *5*; α(M)=0.000744 *11*; α(N+..)=0.000221 *4* α(N)=0.000186 *3*; α(O)=3.36×10^{-5} *5*; α(P)=1.665×10^{-6} *24*
997.1	(5/2⁻,7/2⁻,9/2⁻)	566.8[‡] *6*	82[‡] *15*	430.4	(1/2⁻,3/2⁻,5/2⁻)				
		619.1[‡] *5*	100[‡] *12*	377.9	(7/2⁻)	M1+E2	0.9 *6*	0.036 *14*	α(K)=0.029 *12*; α(L)=0.0053 *15*; α(M)=0.0012 *4*; α(N+..)=0.00037 *11* α(N)=0.00031 *9*; α(O)=5.8×10^{-5} *17*; α(P)=4.1×10^{-6} *16*
		660.9[‡] *5*	92[‡] *10*	336.32	(5/2⁻)				
1016.2	(11/2⁻)	383.9[‡] *5*	14[‡] *4*	632.3	(9/2⁻)				
		638.4[‡] *5*	100[‡] *20*	377.9	(7/2⁻)				
1075.6		739.3[‡] *7*	100[‡]	336.32	(5/2⁻)				
1081.1		744.8[‡] *7*	100[‡] *17*	336.32	(5/2⁻)				
		1080.9[‡][f] *8*	70[‡] *13*	0.0	3/2$^{(-)}$				
1107.2	(7/2⁻,9/2⁻,11/2⁻)	474.8[‡] *6*	19[‡] *10*	632.3	(9/2⁻)	M1+E2	1.1 *11*	0.06 *4*	α(K)=0.05 *4*; α(L)=0.010 *5*; α(M)=0.0024 *10*; α(N+..)=0.0007 *3* α(N)=0.00060 *24*; α(O)=0.00011 *5*; α(P)=7.E−6 *5*

$^{191}_{80}Hg_{111}$-8

Adopted Levels, Gammas (continued)

γ(^{191}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	δ[#]	α[d]	Comments
1107.2	(7/2⁻,9/2⁻,11/2⁻)	729.5[‡] *6*	100[‡] *11*	377.9	(7/2⁻)				
		1055.4[‡] *8*	61[‡] *7*	51.58	(5/2⁻)				
1146.5		514.2[‡] *6*	100[‡] *18*	632.3	(9/2⁻)				
		583.0[‡] *6*	≈77[‡]	563.5	(7/2⁻)				
1178.3		1126.7[‡] *8*	100[‡]	51.58	(5/2⁻)				
1193.1		501.3[‡] *6*	56[‡] *10*	691.7		M1(+E2)		0.06 *4*	α(K)=0.05 *3*; α(L)=0.009 *4*; α(M)=0.0021 *8*; α(N+..)=0.00064 *23* α(N)=0.00053 *19*; α(O)=0.00010 *4*; α(P)=7.E−6 *4*
		815.4[‡] *6*	100[‡] *21*	377.9	(7/2⁻)				
1212.4		834.5[‡] *7*	100[‡]	377.9	(7/2⁻)	(E2)		0.00867	α(K)=0.00685 *10*; α(L)=0.001389 *20*; α(M)=0.000331 *5*; α(N+..)=9.87×10^{-5} *14* α(N)=8.26×10^{-5} *12*; α(O)=1.518×10^{-5} *22*; α(P)=9.04×10^{-7} *13*
1317.6	(5/2⁻,7/2⁻,9/2⁻)	754.1[‡] *8*	100[‡]	563.5	(7/2⁻)	M1+E2	≥1.2	0.015 *5*	α(K)=0.012 *4*; α(L)=0.0023 *5*; α(M)=0.00054 *12*; α(N+..)=0.00016 *4* α(N)=0.00014 *3*; α(O)=2.5×10^{-5} *6*; α(P)=1.6×10^{-6} *6*
1319.6	(13/2⁻)	687.3[e‡] *10*	100[e‡]	632.3	(9/2⁻)				
1843.9		1507.6[‡] *10*	100[‡]	336.32	(5/2⁻)				
2412.4		2034.5[e‡] *20*	100[e‡]	377.9	(7/2⁻)				
2423.3		2045.4[e‡] *10*	100[e‡]	377.9	(7/2⁻)				
2440.2		1488.1[‡] *8*	100[‡]	952.1	(9/2⁻)				
2441.5		2105.2[‡] *10*	100[‡]	336.32	(5/2⁻)				
2443.0		2065.1[‡] *14*	100[‡]	377.9	(7/2⁻)				
2459.7		1443.5[‡] *9*	100[‡]	1016.2	(11/2⁻)				
2475.2		1459.0[‡] *20*	100[‡]	1016.2	(11/2⁻)				
2476.3		1844.0[‡] *10*	100[‡]	632.3	(9/2⁻)				
2477.0		2099.1[e‡] *10*	100[e‡]	377.9	(7/2⁻)				
2543.1		1979.6[‡] *14*	100[‡]	563.5	(7/2⁻)				
215.96+x	(9/2)⁺	215.95[‡] *20*	100[‡]	0.0+x	13/2[(+)]	E2		0.301	α(K)=0.1407 *20*; α(L)=0.1204 *18*; α(M)=0.0310 *5*; α(N+..)=0.00903 *14* α(N)=0.00771 *12*; α(O)=0.001307 *19*; α(P)=1.763×10^{-5} *25*
265.03+x	(11/2)⁺	49.0[‡] *4*	≈26[‡]	215.96+x	(9/2)⁺	E2		150 *7*	α(L)=113 *5*; α(M)=29.3 *13*; α(N+..)=8.4 *4* α(N)=7.2 *4*; α(O)=1.19 *6*; α(P)=0.00136 *6*
		265.0[‡] *2*	100[‡] *5*	0.0+x	13/2[(+)]	M1+E2	1.8 *6*	0.24 *7*	α(K)=0.16 *6*; α(L)=0.057 *3*; α(M)=0.0141 *6*;

$^{191}_{80}Hg_{111}$-9

Adopted Levels, Gammas (continued)

γ(^{191}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	δ[#]	α[d]	Comments
									α(N+..)=0.00416 *18* α(N)=0.00351 *14*; α(O)=0.00062 *4*; α(P)=2.2×10^{-5} *9*
390.47+x	(17/2$^+$)	390.3[§] *3*	100	0.0+x	13/2$^{(+)}$	(E2)[b]		0.0506	α(K)=0.0339 *5*; α(L)=0.01265 *18*; α(M)=0.00316 *5*; α(N+..)=0.000930 *14* α(N)=0.000787 *12*; α(O)=0.0001381 *20*; α(P)=4.45×10^{-6} *7*
534.7+x		318.7[‡] *4*	100[‡]	215.96+x	(9/2)$^+$				
535.21+x	(15/2$^+$)	535.4[§] *3*	100	0.0+x	13/2$^{(+)}$	(M1+E2)[b]	0.14 *4*	0.0755 *13*	α(K)=0.0622 *11*; α(L)=0.01025 *16*; α(M)=0.00238 *4*; α(N+..)=0.000718 *12* α(N)=0.000597 *10*; α(O)=0.0001129 *18*; α(P)=8.67×10^{-6} *15* δ: from γ(θ) (1975Li16) in ^{194}Pt(α,nγ) dataset.
588.6+x	(7/2)$^+$	323.6[‡] *10*	≈13[‡]	265.03+x	(11/2)$^+$				
		372.6[‡] *4*	100[‡] *10*	215.96+x	(9/2)$^+$	M1+E2	1.4 *5*	0.11 *3*	α(K)=0.08 *3*; α(L)=0.019 *3*; α(M)=0.0046 *6*; α(N+..)=0.00137 *18* α(N)=0.00115 *15*; α(O)=0.00021 *3*; α(P)=1.1×10^{-5} *4*
742.7+x	(13/2)$^+$	207.5[‡] *4*	10[‡] *4*	535.21+x	(15/2$^+$)				
		477.6[‡] *4*	90[‡] *10*	265.03+x	(11/2)$^+$				
		526.6[‡] *8*	11[‡] *3*	215.96+x	(9/2)$^+$				
		742.8[‡] *6*	100[‡] *10*	0.0+x	13/2$^{(+)}$	(M1+E2)	≥1.6	0.014 *3*	α(K)=0.011 *3*; α(L)=0.0022 *4*; α(M)=0.00053 *8*; α(N+..)=0.000157 *25* α(N)=0.000131 *21*; α(O)=2.4×10^{-5} *4*; α(P)=1.5×10^{-6} *4*
761.1+x	(11/2)$^+$	172.3[‡] *5*	12[‡] *6*	588.6+x	(7/2)$^+$				
		496.1[‡] *5*	100[‡] *11*	265.03+x	(11/2)$^+$	M1(+E2)		0.06 *4*	α(K)=0.05 *3*; α(L)=0.009 *4*; α(M)=0.0022 *8*; α(N+..)=0.00066 *24* α(N)=0.00055 *20*; α(O)=0.00010 *4*; α(P)=7.E−6 *4*
		545.2[‡] *9*	≈40[‡]	215.96+x	(9/2)$^+$	E2(+M1)	≥1.5	0.030 *8*	α(K)=0.023 *7*; α(L)=0.0052 *9*; α(M)=0.00125 *19*; α(N+..)=0.00037 *6* α(N)=0.00031 *5*; α(O)=5.7×10^{-5} *10*; α(P)=3.1×10^{-6} *10*
		761.1[‡] *7*	52[‡] *11*	0.0+x	13/2$^{(+)}$				
900.0+x	(11/2,13/2)$^+$	634.8[‡] *5*	37[‡] *12*	265.03+x	(11/2)$^+$				
		684.3[‡] *7*	100[‡] *10*	215.96+x	(9/2)$^+$	E2(+M1)	≥1.7	0.017 *4*	α(K)=0.013 *3*; α(L)=0.0027 *4*; α(M)=0.00064 *9*; α(N+..)=0.00019 *3* α(N)=0.000161 *23*; α(O)=3.0×10^{-5} *5*; α(P)=1.8×10^{-6} *5*

$^{191}_{80}Hg_{111}$-10

Adopted Levels, Gammas (continued)

$\gamma(^{191}Hg)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	δ[#]	α[d]	Comments
900.0+x	(11/2,13/2)$^+$	900.5[‡] *11*	71[‡] *10*	0.0+x	13/2$^{(+)}$	E2(+M1)	≥0.7	0.012 *5*	α(K)=0.009 *4*; α(L)=0.0017 *5*; α(M)=0.00039 *12*; α(N+..)=0.00012 *4* α(N)=0.00010 *3*; α(O)=1.8×10^{-5} *6*; α(P)=1.3×10^{-6} *5*
1019.3+x	(21/2$^+$)	628.7[§] *2*	100	390.47+x	(17/2$^+$)	(E2)[b]		0.01583	α(K)=0.01203 *17*; α(L)=0.00290 *4*; α(M)=0.000701 *10*; α(N+..)=0.000208 *3* α(N)=0.0001751 *25*; α(O)=3.17×10^{-5} *5*; α(P)=1.596×10^{-6} *23*
1087.8+x		871.8[‡] *9*	100[‡]	215.96+x	(9/2)$^+$				
1105.7+x		517.1[‡] *6*	100[‡]	588.6+x	(7/2)$^+$				
1130.8+x	(7/2,9/2,11/2$^+$)	865.6[‡] *9*	37[‡] *17*	265.03+x	(11/2)$^+$				
		914.9[‡] *7*	100[‡] *17*	215.96+x	(9/2)$^+$	M1+E2	≥0.3	0.013 *6*	α(K)=0.010 *5*; α(L)=0.0018 *7*; α(M)=0.00041 *15*; α(N+..)=0.00012 *5* α(N)=0.00010 *4*; α(O)=1.9×10^{-5} *8*; α(P)=1.4×10^{-6} *7*
1133.3+x		868.1[‡] *9*	32[‡] *16*	265.03+x	(11/2)$^+$				
		917.3[‡] *7*	100[‡] *16*	215.96+x	(9/2)$^+$				
		1133.4[‡] *10*	35[‡] *12*	0.0+x	13/2$^{(+)}$				
1171.74+x	(19/2$^+$)	636.6[§] *2*	82 *18*	535.21+x	(15/2$^+$)	(E2)[b]		0.01540	α(K)=0.01172 *17*; α(L)=0.00280 *4*; α(M)=0.000677 *10*; α(N+..)=0.000201 *3* α(N)=0.0001691 *24*; α(O)=3.06×10^{-5} *5*; α(P)=1.555×10^{-6} *22*
		781.3[§] *2*	100 *15*	390.47+x	(17/2$^+$)	(M1+E2)[b]	0.14 *4*	0.0283 *5*	α(K)=0.0234 *4*; α(L)=0.00380 *6*; α(M)=0.000880 *14*; α(N+..)=0.000266 *5* α(N)=0.000221 *4*; α(O)=4.18×10^{-5} *7*; α(P)=3.23×10^{-6} *6* δ: from $\gamma(\theta)$ (1975Li16) in ^{194}Pt(α,nγ).
1207.6+x		991.6[e] *10*	100[e]	215.96+x	(9/2)$^+$				
1318.5+x		1102.5[‡] *10*	100[‡] *29*	215.96+x	(9/2)$^+$				
		1318.6[‡] *11*	75[‡] *25*	0.0+x	13/2$^{(+)}$				
1434.2+x		1218.2[‡] *9*	100[‡]	215.96+x	(9/2)$^+$				
1637.9+x	(21/2$^-$)	466.25[§] *21*	100 *15*	1171.74+x	(19/2$^+$)	(E1)[b]		0.01032	α(K)=0.00856 *12*; α(L)=0.001355 *19*; α(M)=0.000313 *5*; α(N+..)=9.34×10^{-5} *14* α(N)=7.79×10^{-5} *11*; α(O)=1.449×10^{-5} *21*; α(P)=1.001×10^{-6} *14*
		618.5[§] *2*	33 *4*	1019.3+x	(21/2$^+$)	(E1)		0.00575	α(K)=0.00479 *7*; α(L)=0.000740 *11*; α(M)=0.0001704 *24*; α(N+..)=5.10×10^{-5} *8*

$^{191}_{80}Hg_{111}$-11

Adopted Levels, Gammas (continued)

γ(^{191}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	α[d]	Comments
								α(N)=4.25×10^{-5} *6*; α(O)=7.94×10^{-6} *12*; α(P)=5.69×10^{-7} *8*
1688.4+x		1472.4[‡] *10*	100[‡]	215.96+x	(9/2)$^+$			
1769.4+x	(25/2$^+$)	750.1 *3*	100	1019.3+x	(21/2$^+$)	(E2)[b]	0.01081	α(K)=0.00843 *12*; α(L)=0.00181 *3*; α(M)=0.000434 *6*; α(N+..)=0.0001294 *19* α(N)=0.0001084 *16*; α(O)=1.98×10^{-5} *3*; α(P)=1.116×10^{-6} *16*
1804.5+x	(25/2$^-$)	166.6 *3*	100	1637.9+x	(21/2$^-$)	(E2)[b]	0.746 *12*	B(E2)(W.u.)=54 *6* α(K)=0.261 *4*; α(L)=0.364 *6*; α(M)=0.0945 *16*; α(N+..)=0.0274 *5* α(N)=0.0235 *4*; α(O)=0.00394 *7*; α(P)=3.29×10^{-5} *5* From their measured half-life 1978Me11 derive B(E2)=(3.50 *34*)×10^3 e^{2}fm^4.
1861.8+x	(23/2$^-$)	224.0 *3*	12.1 *17*	1637.9+x	(21/2$^-$)	(M1)	0.806	α(K)=0.661 *10*; α(L)=0.1110 *16*; α(M)=0.0258 *4*; α(N+..)=0.00780 *12* α(N)=0.00648 *10*; α(O)=0.001226 *18*; α(P)=9.38×10^{-5} *14*
		842.5 *3*	100 *16*	1019.3+x	(21/2$^+$)	(E1)	0.00316	α(K)=0.00264 *4*; α(L)=0.000399 *6*; α(M)=9.16×10^{-5} *13*; α(N+..)=2.75×10^{-5} *4* α(N)=2.29×10^{-5} *4*; α(O)=4.29×10^{-6} *6*; α(P)=3.18×10^{-7} *5*
2064.8+x	(27/2$^-$)	203.0 *3*	100 *7*	1861.8+x	(23/2$^-$)	(E2)[b]	0.371	α(K)=0.1635 *24*; α(L)=0.1559 *24*; α(M)=0.0402 *7*; α(N+..)=0.01171 *18* α(N)=0.01000 *16*; α(O)=0.00169 *3*; α(P)=2.04×10^{-5} *3*
		260.2 *3*	25 *4*	1804.5+x	(25/2$^-$)	(M1+E2)	0.35 *19*	α(K)=0.26 *18*; α(L)=0.065 *9*; α(M)=0.0157 *13*; α(N+..)=0.0047 *5* α(N)=0.0039 *4*; α(O)=0.00071 *10*; α(P)=4.E−5 *3*
		295.4 *3*	49 *9*	1769.4+x	(25/2$^+$)	(E1)	0.0288	α(K)=0.0237 *4*; α(L)=0.00392 *6*; α(M)=0.000908 *13*; α(N+..)=0.000270 *4* α(N)=0.000226 *4*; α(O)=4.15×10^{-5} *6*; α(P)=2.66×10^{-6} *4*
2123.5+x	(29/2$^-$)	318.95[§] *21*	100	1804.5+x	(25/2$^-$)	(E2)[b]	0.0889	α(K)=0.0544 *8*; α(L)=0.0260 *4*; α(M)=0.00657 *10*; α(N+..)=0.00193 *3* α(N)=0.001635 *24*; α(O)=0.000283 *4*; α(P)=7.04×10^{-6} *10*
2286.4+x		2070.4[e‡] *10*	100[e‡]	215.96+x	(9/2)$^+$			
2299.5+x		2034.5[e‡] *20*	100[e‡]	265.03+x	(11/2)$^+$			
2302.9+x		2086.9[e‡] *10*	100[e‡]	215.96+x	(9/2)$^+$			
2307.5+x		2091.5[‡] *11*	100[‡]	215.96+x	(9/2)$^+$			
2310.4+x		2045.4[e‡] *10*	100[e‡]	265.03+x	(11/2)$^+$			
2315.1+x		2099.1[e‡] *10*	100[e‡]	215.96+x	(9/2)$^+$			
2329.0+x		1586.4[‡] *11*	43[‡] *9*	742.7+x	(13/2)$^+$			
		2112.8[‡] *15*	45[‡] *9*	215.96+x	(9/2)$^+$			
		2328.9[‡] *12*	100[‡] *10*	0.0+x	13/2$^{(+)}$			
2335.4+x		2070.4[e‡] *10*	100[e‡]	265.03+x	(11/2)$^+$			
2340.2+x		2075.2[‡] *14*	100[‡]	265.03+x	(11/2)$^+$			

$^{191}_{80}Hg_{111}$-12

Adopted Levels, Gammas (continued)

γ(^{191}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	α[d]	Comments
2351.9+x		2086.9[e‡] *10*	100[e‡]	265.03+x	(11/2)$^+$			
2356.4+x		1613.6[‡] *10*	100[‡] *20*	742.7+x	(13/2)$^+$			
		2141.0[‡] *20*	27[‡] *7*	215.96+x	(9/2)$^+$			
2358.8+x		1616.1[‡] *8*	100[‡] *10*	742.7+x	(13/2)$^+$			
		2358.7[‡] *14*	81[‡] *14*	0.0+x	13/2$^{(+)}$			
2361.6+x		1619.0[‡] *10*	46[‡] *5*	742.7+x	(13/2)$^+$			
		2361.5[‡] *10*	100[‡] *10*	0.0+x	13/2$^{(+)}$			
2406.0+x		2141.0[e‡] *20*	100[e‡]	265.03+x	(11/2)$^+$			
2408.9+x		2192.9[‡] *15*	100[‡]	215.96+x	(9/2)$^+$			
2431.5+x	(29/2$^+$)	662.1[§] *2*	100	1769.4+x	(25/2$^+$)	(E2)[b]	0.01413	α(K)=0.01082 *16*; α(L)=0.00252 *4*; α(M)=0.000607 *9*; α(N+..)=0.000181 *3* α(N)=0.0001516 *22*; α(O)=2.75×10^{-5} *4*; α(P)=1.435×10^{-6} *21*
2545.0+x	(31/2$^-$)	480.2 *3*	100	2064.8+x	(27/2$^-$)	(E2)[b]	0.0297	α(K)=0.0213 *3*; α(L)=0.00641 *9*; α(M)=0.001580 *23*; α(N+..)=0.000467 *7* α(N)=0.000394 *6*; α(O)=7.00×10^{-5} *10*; α(P)=2.82×10^{-6} *4*
2588.8+x	(29/2$^+$)	819.5 *3*	100	1769.4+x	(25/2$^+$)	(E2)[b]	0.00900	α(K)=0.00709 *10*; α(L)=0.001453 *21*; α(M)=0.000346 *5*; α(N+..)=0.0001033 *15* α(N)=8.65×10^{-5} *13*; α(O)=1.587×10^{-5} *23*; α(P)=9.37×10^{-7} *14*
2594.8+x	(29/2$^-$)	790.3 *3*	100	1804.5+x	(25/2$^-$)			
2598.5+x	(33/2$^+$)	166.9 *3*	100	2431.5+x	(29/2$^+$)	(E2)[b]	0.742 *12*	B(E2)(W.u.)=42 *3* α(K)=0.260 *4*; α(L)=0.361 *6*; α(M)=0.0937 *15*; α(N+..)=0.0272 *5* α(N)=0.0233 *4*; α(O)=0.00391 *7*; α(P)=3.27×10^{-5} *5* From their measured half-life 1978Me11 derive B(E2)=(2.72 *18*)×10^3 e^{2}fm^4.
2643.4+x	(33/2$^-$)	519.9 *3*	100	2123.5+x	(29/2$^-$)	(E2)	0.0245	α(K)=0.0179 *3*; α(L)=0.00502 *7*; α(M)=0.001231 *18*; α(N+..)=0.000364 *6* α(N)=0.000307 *5*; α(O)=5.49×10^{-5} *8*; α(P)=2.38×10^{-6} *4*
2690.3+x	(33/2$^-$)	566.8[§] *2*	100	2123.5+x	(29/2$^-$)	(E2)[b]	0.0200	α(K)=0.01491 *21*; α(L)=0.00389 *6*; α(M)=0.000947 *14*; α(N+..)=0.000281 *4* α(N)=0.000236 *4*; α(O)=4.25×10^{-5} *6*; α(P)=1.98×10^{-6} *3*
2935.4+x	(29/2$^+$)	1166.0 *3*	100	1769.4+x	(25/2$^+$)			
3078.4+x	(37/2$^+$)	479.9[§] *2*	100	2598.5+x	(33/2$^+$)	(E2)[b]	0.0298	α(K)=0.0213 *3*; α(L)=0.00642 *9*; α(M)=0.001583 *23*; α(N+..)=0.000468 *7* α(N)=0.000395 *6*; α(O)=7.02×10^{-5} *10*; α(P)=2.82×10^{-6} *4*
3117.4+x	(33/2$^+$)	528.6 *3*	100	2588.8+x	(29/2$^+$)	(E2)	0.0236	α(K)=0.01728 *25*; α(L)=0.00478 *7*; α(M)=0.001169 *17*; α(N+..)=0.000346 *5* α(N)=0.000292 *5*; α(O)=5.22×10^{-5} *8*; α(P)=2.29×10^{-6} *4*
3166.9+x	(33/2$^+$)	231.6 *3*	16 *5*	2935.4+x	(29/2$^+$)	(E2)	0.239	α(K)=0.1186 *17*; α(L)=0.0903 *14*; α(M)=0.0232 *4*;

$^{191}_{80}Hg_{111}$-13

Adopted Levels, Gammas (continued)

γ(^{191}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	α[d]	Comments
								α(N+..)=0.00676 *11* α(N)=0.00577 *9*; α(O)=0.000981 *15*; α(P)=1.492×10^{-5} *22*
3166.9+x	(33/2$^+$)	568.4 *3*	100 *26*	2598.5+x	(33/2$^+$)	(Q)		
		578.2 *3*	38 *9*	2588.8+x	(29/2$^+$)	(E2)	0.0191	α(K)=0.01430 *20*; α(L)=0.00367 *6*; α(M)=0.000893 *13*; α(N+..)=0.000265 *4* α(N)=0.000223 *4*; α(O)=4.01×10^{-5} *6*; α(P)=1.90×10^{-6} *3*
3222.2+x	(35/2$^-$)	677.2 *3*	100	2545.0+x	(31/2$^-$)	(E2)[b]	0.01345	α(K)=0.01034 *15*; α(L)=0.00237 *4*; α(M)=0.000570 *8*; α(N+..)=0.0001697 *24* α(N)=0.0001425 *20*; α(O)=2.59×10^{-5} *4*; α(P)=1.371×10^{-6} *20*
3252.8+x	(33/2$^-$)	658.0 *3*	100 *39*	2594.8+x	(29/2$^-$)			
		1129.3 *3*	22 *17*	2123.5+x	(29/2$^-$)			
3428.8+x	(37/2$^-$)	738.55[§] *21*	100	2690.3+x	(33/2$^-$)	(E2)[b]	0.01117	α(K)=0.00870 *13*; α(L)=0.00189 *3*; α(M)=0.000452 *7*; α(N+..)=0.0001347 *19* α(N)=0.0001129 *16*; α(O)=2.06×10^{-5} *3*; α(P)=1.151×10^{-6} *17*
3487.6+x	(37/2$^+$)	320.7 *3*	100 *14*	3166.9+x	(33/2$^+$)	(E2)[b]	0.0875	α(K)=0.0537 *8*; α(L)=0.0255 *4*; α(M)=0.00644 *10*; α(N+..)=0.00189 *3* α(N)=0.001602 *24*; α(O)=0.000277 *4*; α(P)=6.95×10^{-6} *10*
		409.2 *3*	60 *8*	3078.4+x	(37/2$^+$)	(Q)		
3518.8+x	(37/2$^-$)	875.4 *3*	100	2643.4+x	(33/2$^-$)	(E2)	0.00787	α(K)=0.00625 *9*; α(L)=0.001238 *18*; α(M)=0.000294 *5*; α(N+..)=8.78×10^{-5} *13* α(N)=7.34×10^{-5} *11*; α(O)=1.352×10^{-5} *19*; α(P)=8.23×10^{-7} *12*
3728.0+x	(35/2)	1037.7 *3*	100	2690.3+x	(33/2$^-$)			
3792.6+x	(41/2$^+$)	714.2 *3*	100	3078.4+x	(37/2$^+$)	(E2)[b]	0.01199	α(K)=0.00930 *13*; α(L)=0.00206 *3*; α(M)=0.000494 *7*; α(N+..)=0.0001471 *21* α(N)=0.0001234 *18*; α(O)=2.25×10^{-5} *4*; α(P)=1.231×10^{-6} *18*
3946.7+x	(37/2$^-$)	694.0 *3*	100 *21*	3252.8+x	(33/2$^-$)			
		1256.4 *3*	42 *33*	2690.3+x	(33/2$^-$)	(E2)	0.00390	α(K)=0.00317 *5*; α(L)=0.000550 *8*; α(M)=0.0001285 *18*; α(N+..)=4.86×10^{-5} *7* α(N)=3.21×10^{-5} *5*; α(O)=6.00×10^{-6} *9*; α(P)=4.14×10^{-7} *6*; α(IPF)=1.004×10^{-5} *15*
3957.2+x	(39/2$^-$)	735.0 *3*	100	3222.2+x	(35/2$^-$)	(E2)[b]	0.01128	α(K)=0.00878 *13*; α(L)=0.00191 *3*; α(M)=0.000458 *7*; α(N+..)=0.0001364 *20* α(N)=0.0001144 *16*; α(O)=2.09×10^{-5} *3*; α(P)=1.162×10^{-6} *17*
3969.0+x	(39/2$^-$)	746.8 *3*	100	3222.2+x	(35/2$^-$)	(E2)	0.01091	α(K)=0.00851 *12*; α(L)=0.00183 *3*; α(M)=0.000439 *7*; α(N+..)=0.0001309 *19* α(N)=0.0001097 *16*; α(O)=2.00×10^{-5} *3*; α(P)=1.126×10^{-6} *16*
3988.5+x	(41/2$^+$)	500.9 *3*	100	3487.6+x	(37/2$^+$)	(E2)[b]	0.0268	α(K)=0.0194 *3*; α(L)=0.00562 *8*; α(M)=0.001382 *20*; α(N+..)=0.000409 *6* α(N)=0.000345 *5*; α(O)=6.15×10^{-5} *9*; α(P)=2.57×10^{-6} *4*
4140.8+x	(41/2$^-$)	712.0 *3*	100	3428.8+x	(37/2$^-$)	(Q)		
4217.6+x	(41/2$^-$)	788.8 *3*	100	3428.8+x	(37/2$^-$)	(Q)		

$^{191}_{80}Hg_{111}$-14

Adopted Levels, Gammas (continued)

γ(^{191}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	α[d]	Comments
4276.0+x	(41/2$^-$)	757.2 *3*	100	3518.8+x	(37/2$^-$)	(E2)	0.01060	α(K)=0.00828 *12*; α(L)=0.001770 *25*; α(M)=0.000424 *6*; α(N+..)=0.0001263 *18* α(N)=0.0001058 *15*; α(O)=1.93×10^{-5} *3*; α(P)=1.095×10^{-6} *16*
4357.4+x	(43/2$^-$)	400.2 *3*	100	3957.2+x	(39/2$^-$)	(E2)[b]	0.0474	α(K)=0.0320 *5*; α(L)=0.01162 *17*; α(M)=0.00290 *5*; α(N+..)=0.000853 *13* α(N)=0.000722 *11*; α(O)=0.0001268 *18*; α(P)=4.21×10^{-6} *6*
4382.5+x	(41/2$^-$)	953.7 *3*	100	3428.8+x	(37/2$^-$)	(E2)	0.00663	α(K)=0.00530 *8*; α(L)=0.001012 *15*; α(M)=0.000239 *4*; α(N+..)=7.15×10^{-5} *10* α(N)=5.98×10^{-5} *9*; α(O)=1.105×10^{-5} *16*; α(P)=6.98×10^{-7} *10*
4491.9+x	(41/2$^+$)	1004.3 *3*	62 *15*	3487.6+x	(37/2$^+$)			
		1413.5 *3*	100 *23*	3078.4+x	(37/2$^+$)	(E2)	0.00316	α(K)=0.00256 *4*; α(L)=0.000430 *6*; α(M)=0.0001001 *14*; α(N+..)=7.03×10^{-5} *10* α(N)=2.50×10^{-5} *4*; α(O)=4.69×10^{-6} *7*; α(P)=3.33×10^{-7} *5*; α(IPF)=4.02×10^{-5} *6*
4529.7+x	(39/2)	801.7 *3*	53 *13*	3728.0+x	(35/2)			
		1100.9 *3*	100 *27*	3428.8+x	(37/2$^-$)	(D)		
4587.1+x	(41/2$^-$)	(57.3)		4529.7+x	(39/2)			
		629.9 *3*	90 *20*	3957.2+x	(39/2$^-$)	(D+Q)		
		640.3 *3*	80 *17*	3946.7+x	(37/2$^-$)	(E2)	0.01520	α(K)=0.01158 *17*; α(L)=0.00276 *4*; α(M)=0.000666 *10*; α(N+..)=0.000198 *3* α(N)=0.0001664 *24*; α(O)=3.01×10^{-5} *5*; α(P)=1.537×10^{-6} *22*
		1158.2 *3*	100 *7*	3428.8+x	(37/2$^-$)	(E2)	0.00454	α(K)=0.00369 *6*; α(L)=0.000655 *10*; α(M)=0.0001535 *22*; α(N+..)=4.74×10^{-5} *7* α(N)=3.84×10^{-5} *6*; α(O)=7.15×10^{-6} *10*; α(P)=4.82×10^{-7} *7*; α(IPF)=1.379×10^{-6} *23*
4632.2+x	(45/2$^+$)	839.6 *3*	100	3792.6+x	(41/2$^+$)	(E2)[b]	0.00856	α(K)=0.00677 *10*; α(L)=0.001369 *20*; α(M)=0.000326 *5*; α(N+..)=9.72×10^{-5} *14* α(N)=8.14×10^{-5} *12*; α(O)=1.496×10^{-5} *21*; α(P)=8.93×10^{-7} *13*
4653.7+x	(43/2$^-$)	271.1 *3*	100	4382.5+x	(41/2$^-$)	(D)		
4667.3+x	(45/2$^+$)	678.8 *3*	100	3988.5+x	(41/2$^+$)	(E2)	0.01338	α(K)=0.01029 *15*; α(L)=0.00235 *4*; α(M)=0.000567 *8*; α(N+..)=0.0001686 *24* α(N)=0.0001416 *20*; α(O)=2.57×10^{-5} *4*; α(P)=1.364×10^{-6} *20*
4850.8+x	(45/2$^+$)	358.9 *3*	100 *21*	4491.9+x	(41/2$^+$)	(E2)	0.0636	α(K)=0.0412 *6*; α(L)=0.01695 *25*; α(M)=0.00426 *6*; α(N+..)=0.001250 *18* α(N)=0.001060 *16*; α(O)=0.000185 *3*; α(P)=5.38×10^{-6} *8*
		862.3 *3*	25 *4*	3988.5+x	(41/2$^+$)	(E2)	0.00811	α(K)=0.00643 *9*; α(L)=0.001283 *18*; α(M)=0.000305 *5*; α(N+..)=9.11×10^{-5} *13* α(N)=7.62×10^{-5} *11*; α(O)=1.402×10^{-5} *20*; α(P)=8.48×10^{-7} *12*
4855.9+x	(43/2$^-$)	268.8 *3*	100	4587.1+x	(41/2$^-$)	(M1)	0.487	α(K)=0.400 *6*; α(L)=0.0669 *10*; α(M)=0.01556 *23*; α(N+..)=0.00470 *7* α(N)=0.00390 *6*; α(O)=0.000738 *11*; α(P)=5.66×10^{-5} *9*
4894.9+x	(45/2$^-$)	241.2 *3*	40 *20*	4653.7+x	(43/2$^-$)	(D)		
		512.3 *3*	100 *20*	4382.5+x	(41/2$^-$)	(E2)	0.0254	α(K)=0.0185 *3*; α(L)=0.00525 *8*; α(M)=0.001288 *19*; α(N+..)=0.000381 *6* α(N)=0.000321 *5*; α(O)=5.74×10^{-5} *8*; α(P)=2.45×10^{-6} *4*
4903.5+x	(45/2)	249.8 *3*	38 *13*	4653.7+x	(43/2$^-$)	D		

$^{191}_{80}Hg_{111}$-15

Adopted Levels, Gammas (continued)

γ(^{191}Hg) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	α[d]	Comments
4903.5+x	(45/2)	520.9 *3*	100 *25*	4382.5+x	(41/2$^-$)			
4957.7+x		740.0 *10*	100	4217.6+x	(41/2$^-$)			
5006.5+x	(47/2$^-$)	649.1 *3*	100	4357.4+x	(43/2$^-$)	(E2)	0.01475	α(K)=0.01127 *16*; α(L)=0.00266 *4*; α(M)=0.000641 *9*; α(N+..)=0.000191 *3* α(N)=0.0001601 *23*; α(O)=2.90×10^{-5} *4*; α(P)=1.494×10^{-6} *21*
5027.8+x	(45/2$^-$)	886.9 *3*	100	4140.8+x	(41/2$^-$)	(E2)	0.00766	α(K)=0.00609 *9*; α(L)=0.001200 *17*; α(M)=0.000285 *4*; α(N+..)=8.51×10^{-5} *12* α(N)=7.11×10^{-5} *10*; α(O)=1.311×10^{-5} *19*; α(P)=8.03×10^{-7} *12*
5072.0+x	(45/2$^-$)	796.0 *3*	100	4276.0+x	(41/2$^-$)	(E2)	0.00955	α(K)=0.00751 *11*; α(L)=0.001561 *22*; α(M)=0.000372 *6*; α(N+..)=0.0001111 *16* α(N)=9.31×10^{-5} *13*; α(O)=1.706×10^{-5} *24*; α(P)=9.92×10^{-7} *14*
5128.2+x	(47/2)	233.3 *3*	100	4894.9+x	(45/2$^-$)	(D)		
5142.5+x	(45/2$^-$)	286.6 *3*	100 *4*	4855.9+x	(43/2$^-$)	(M1)	0.409	α(K)=0.336 *5*; α(L)=0.0560 *8*; α(M)=0.01303 *19*; α(N+..)=0.00394 *6* α(N)=0.00327 *5*; α(O)=0.000619 *9*; α(P)=4.74×10^{-5} *7*
		555.4 *3*	86 *5*	4587.1+x	(41/2$^-$)	(E2)	0.0210	α(K)=0.01556 *22*; α(L)=0.00413 *6*; α(M)=0.001006 *15*; α(N+..)=0.000298 *5* α(N)=0.000251 *4*; α(O)=4.51×10^{-5} *7*; α(P)=2.07×10^{-6} *3*
5296.1+x	(47/2$^-$)	440.2 *3*	100	4855.9+x	(43/2$^-$)	(E2)	0.0370	α(K)=0.0258 *4*; α(L)=0.00847 *12*; α(M)=0.00210 *3*; α(N+..)=0.000619 *9* α(N)=0.000523 *8*; α(O)=9.24×10^{-5} *14*; α(P)=3.41×10^{-6} *5*
5427.2+x	(49/2$^+$)	759.9 *3*	100	4667.3+x	(45/2$^+$)	(E2)	0.01052	α(K)=0.00822 *12*; α(L)=0.001754 *25*; α(M)=0.000420 *6*; α(N+..)=0.0001251 *18* α(N)=0.0001048 *15*; α(O)=1.92×10^{-5} *3*; α(P)=1.088×10^{-6} *16*
5506.6+x	(47/2$^-$)	210.5 *3*	41 *10*	5296.1+x	(47/2$^-$)	(M1)	0.958	α(K)=0.786 *12*; α(L)=0.1320 *20*; α(M)=0.0307 *5*; α(N+..)=0.00928 *14* α(N)=0.00771 *12*; α(O)=0.001458 *22*; α(P)=0.0001116 *17*
		364.1 *3*	100 *15*	5142.5+x	(45/2$^-$)	(M1)	0.213	α(K)=0.1754 *25*; α(L)=0.0291 *5*; α(M)=0.00677 *10*; α(N+..)=0.00204 *3* α(N)=0.001698 *24*; α(O)=0.000321 *5*; α(P)=2.47×10^{-5} *4*
		650.7 *3*	78 *7*	4855.9+x	(43/2$^-$)	(E2)	0.01467	α(K)=0.01121 *16*; α(L)=0.00264 *4*; α(M)=0.000637 *9*; α(N+..)=0.000189 *3* α(N)=0.0001590 *23*; α(O)=2.88×10^{-5} *4*; α(P)=1.487×10^{-6} *21*
5533.9+x	(49/2$^+$)	683.1 *3*	100 *24*	4850.8+x	(45/2$^+$)	(E2)	0.01320	α(K)=0.01016 *15*; α(L)=0.00231 *4*; α(M)=0.000557 *8*; α(N+..)=0.0001658 *24* α(N)=0.0001391 *20*; α(O)=2.53×10^{-5} *4*; α(P)=1.347×10^{-6} *19*
		866.6 *3*	21 *4*	4667.3+x	(45/2$^+$)			
		901.7 *3*	19 *3*	4632.2+x	(45/2$^+$)	(E2)	0.00741	α(K)=0.00590 *9*; α(L)=0.001154 *17*; α(M)=0.000273 *4*; α(N+..)=8.17×10^{-5} *12* α(N)=6.83×10^{-5} *10*; α(O)=1.260×10^{-5} *18*; α(P)=7.77×10^{-7} *11*
5553.3+x	(49/2$^+$)	921.1 *3*	100	4632.2+x	(45/2$^+$)	(E2)	0.00710	α(K)=0.00567 *8*; α(L)=0.001097 *16*; α(M)=0.000260 *4*; α(N+..)=7.77×10^{-5} *11* α(N)=6.49×10^{-5} *10*; α(O)=1.198×10^{-5} *17*; α(P)=7.46×10^{-7} *11*
5653.8+x	(49/2$^-$)	147.2 *3*	100	5506.6+x	(47/2$^-$)	(M1)	2.62	α(K)=2.15 *4*; α(L)=0.363 *6*; α(M)=0.0845 *13*; α(N+..)=0.0255 *4* α(N)=0.0212 *4*; α(O)=0.00401 *6*; α(P)=0.000306 *5*
5795.7+x	(51/2$^-$)	789.2 *3*	100	5006.5+x	(47/2$^-$)	(E2)	0.00972	α(K)=0.00763 *11*; α(L)=0.001595 *23*; α(M)=0.000381 *6*; α(N+..)=0.0001136 *16* α(N)=9.51×10^{-5} *14*; α(O)=1.743×10^{-5} *25*; α(P)=1.009×10^{-6} *15*
5802.8+x		845.1 *3*	100	4957.7+x				

$^{191}_{80}Hg_{111}$-16

Adopted Levels, Gammas (continued)

$\gamma(^{191}Hg)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]	α[d]	Comments
6025.4+x		997.6 *3*	100	5027.8+x	(45/2$^-$)	(Q)		
6085.3+x	(51/2$^-$)	431.5 *3*	81 *13*	5653.8+x	(49/2$^-$)	(M1)	0.1354	α(K)=0.1115 *16*; α(L)=0.0184 *3*; α(M)=0.00428 *6*; α(N+..)=0.001292 *19* α(N)=0.001073 *16*; α(O)=0.000203 *3*; α(P)=1.562×10^{-5} *22*
		578.7 *3*	100 *32*	5506.6+x	(47/2$^-$)	(E2)	0.0191	α(K)=0.01427 *20*; α(L)=0.00366 *6*; α(M)=0.000891 *13*; α(N+..)=0.000264 *4* α(N)=0.000222 *4*; α(O)=4.00×10^{-5} *6*; α(P)=1.89×10^{-6} *3*
6230.7+x	(53/2$^+$)	803.5 *3*	100	5427.2+x	(49/2$^+$)	(E2)	0.00937	α(K)=0.00737 *11*; α(L)=0.001525 *22*; α(M)=0.000364 *6*; α(N+..)=0.0001085 *16* α(N)=9.09×10^{-5} *13*; α(O)=1.666×10^{-5} *24*; α(P)=9.74×10^{-7} *14*
6333.6+x	(53/2$^+$)	799.7 *3*	100	5533.9+x	(49/2$^+$)	(E2)	0.00946	α(K)=0.00744 *11*; α(L)=0.001543 *22*; α(M)=0.000368 *6*; α(N+..)=0.0001098 *16* α(N)=9.20×10^{-5} *13*; α(O)=1.686×10^{-5} *24*; α(P)=9.83×10^{-7} *14*
6459.6+x	(53/2)	374.3 *3*	67 *20*	6085.3+x	(51/2$^-$)			
		805.8 *3*	100 *47*	5653.8+x	(49/2$^-$)	Q		
6520.6+x	(53/2$^+$)	967.3 *3*	100	5553.3+x	(49/2$^+$)	(E2)	0.00644	α(K)=0.00516 *8*; α(L)=0.000979 *14*; α(M)=0.000231 *4*; α(N+..)=6.92×10^{-5} *10* α(N)=5.78×10^{-5} *9*; α(O)=1.069×10^{-5} *15*; α(P)=6.79×10^{-7} *10*
6678.2+x	(55/2$^-$)	882.5 *3*	100	5795.7+x	(51/2$^-$)	(E2)	0.00774	α(K)=0.00615 *9*; α(L)=0.001214 *17*; α(M)=0.000288 *4*; α(N+..)=8.61×10^{-5} *12* α(N)=7.20×10^{-5} *10*; α(O)=1.326×10^{-5} *19*; α(P)=8.10×10^{-7} *12*
6936.5+x	(55/2$^-$)	476.9 *3*	29 *8*	6459.6+x	(53/2)	(D)		
		851.2 *3*	100 *6*	6085.3+x	(51/2$^-$)	(E2)	0.00832	α(K)=0.00659 *10*; α(L)=0.001324 *19*; α(M)=0.000315 *5*; α(N+..)=9.40×10^{-5} *14* α(N)=7.87×10^{-5} *11*; α(O)=1.447×10^{-5} *21*; α(P)=8.70×10^{-7} *13*
7077.3+x	(57/2$^+$)	846.6 *3*	100	6230.7+x	(53/2$^+$)	(E2)	0.00842	α(K)=0.00666 *10*; α(L)=0.001342 *19*; α(M)=0.000319 *5*; α(N+..)=9.53×10^{-5} *14* α(N)=7.97×10^{-5} *12*; α(O)=1.466×10^{-5} *21*; α(P)=8.79×10^{-7} *13*
7227.0+x	(57/2$^-$)	290.5 *3*	100	6936.5+x	(55/2$^-$)	(M1)	0.394	α(K)=0.323 *5*; α(L)=0.0540 *8*; α(M)=0.01256 *18*; α(N+..)=0.00379 *6* α(N)=0.00315 *5*; α(O)=0.000596 *9*; α(P)=4.57×10^{-5} *7*
7527.8+x	(59/2)	300.8 *3*	100	7227.0+x	(57/2$^-$)	(D)		
7670.7+x		992.5 *3*	100	6678.2+x	(55/2$^-$)			
7689.9+x	(59/2)	462.9 *3*	100	7227.0+x	(57/2$^-$)	(D)		
7697.0+x		1018.8 *3*	100	6678.2+x	(55/2$^-$)	(Q)		
7987.4+x	(61/2)	459.6 *3*	100 *64*	7527.8+x	(59/2)	(D)		
		760.4 *3*	50 *27*	7227.0+x	(57/2$^-$)			
8351.8+x	(63/2)	364.4 *3*	100 *79*	7987.4+x	(61/2)	(Q)		
		661.9 *3*	75 *17*	7689.9+x	(59/2)			
		824.0 *3*	75 *29*	7527.8+x	(59/2)	(Q)		
8668.9+x		317.1 *3*	100	8351.8+x	(63/2)			
310.9+y	J+2	310.9[&] *7*	0.14[@] *2*	y	J≈(31/2)			

$^{191}_{80}Hg_{111}$-17

Adopted Levels, Gammas (continued)

$\gamma(^{191}Hg)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[a]
662.4+y	J+4	351.5[&] *1*	0.83[@] *5*	310.9+y	J+2	Q[c]
1054.0+y	J+6	391.6[&] *4*	1.00[@] *9*	662.4+y	J+4	Q[c]
1485.3+y	J+8	431.3[&] *1*	0.98[@] *4*	1054.0+y	J+6	Q[c]
1955.4+y	J+10	470.1[&] *1*	1.02[@] *4*	1485.3+y	J+8	Q[c]
2463.8+y	J+12	508.4[&] *1*	0.97[@] *6*	1955.4+y	J+10	Q[c]
3009.7+y	J+14	545.9[&] *2*	0.88[@] *5*	2463.8+y	J+12	Q[c]
3592.1+y	J+16	582.4[&] *1*	0.77[@] *4*	3009.7+y	J+14	Q[c]
4210.6+y	J+18	618.5[&] *2*	0.73[@] *10*	3592.1+y	J+16	Q[c]
4864.3+y	J+20	653.7[&] *2*	0.61[@] *5*	4210.6+y	J+18	Q[c]
5552.6+y	J+22	688.3[&] *2*	0.53[@] *5*	4864.3+y	J+20	Q[c]
6274.8+y	J+24	722.2[&] *3*	0.34[@] *5*	5552.6+y	J+22	Q[c]
7030.4+y	J+26	755.6[&] *3*	0.17[@] *4*	6274.8+y	J+24	Q[c]
7819.2+y	J+28	788.8[&] *6*	0.09[@] *2*	7030.4+y	J+26	
252.4+z	J1+2	252.4[&] *7*		z	J1≈(21/2)	
545.1+z	J1+4	292.7[&] *1*	0.43[@] *7*	252.4+z	J1+2	
878.2+z	J1+6	333.1[&] *1*	0.76[@] *10*	545.1+z	J1+4	
1250.9+z	J1+8	372.7[&] *1*	1.07[@] *14*	878.2+z	J1+6	
1662.7+z	J1+10	411.8[&] *2*	0.87[@] *19*	1250.9+z	J1+8	
2113.0+z	J1+12	450.3[&] *1*	0.97[@] *13*	1662.7+z	J1+10	
2601.1+z	J1+14	488.1[&] *2*	0.83[@] *13*	2113.0+z	J1+12	
3126.3+z	J1+16	525.2[&] *2*	0.57[@] *16*	2601.1+z	J1+14	
3687.9+z	J1+18	561.6[&] *3*	0.65[@] *10*	3126.3+z	J1+16	
4285.1+z	J1+20	597.2[&] *2*	0.97[@] *14*	3687.9+z	J1+18	
4917.2+z	J1+22	632.1[&] *2*	0.55[@] *10*	4285.1+z	J1+20	
5583.4+z	J1+24	666.2[&] *2*	0.53[@] *6*	4917.2+z	J1+22	
6283.3+z	J1+26	699.9[&] *2*	0.40[@] *8*	5583.4+z	J1+24	
7016.0+z	J1+28	732.7[&] *4*		6283.3+z	J1+26	
7781.2+z	J1+30	765.2[&] *4*		7016.0+z	J1+28	
8577.7+z	J1+32	796.5[&] *6*		7781.2+z	J1+30	
272.0+u	J2+2	272.0[&] *10*		u	J2≈(23/2)	
585.1+u	J2+4	313.1[&] *2*	0.95[@] *16*	272.0+u	J2+2	
937.6+u	J2+6	352.5[&] *1*	0.96[@] *16*	585.1+u	J2+4	
1329.1+u	J2+8	391.5[&] *4*	1.44[@] *19*	937.6+u	J2+6	
1758.8+u	J2+10	429.7[&] *1*		1329.1+u	J2+8	
2225.9+u	J2+12	467.1[&] *2*	1.07[@] *19*	1758.8+u	J2+10	

$^{191}_{80}Hg_{111}$-18

Adopted Levels, Gammas (continued)

$\gamma(^{191}Hg)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π
2729.8+u	J2+14	503.9[&] *1*	0.78[@] *14*	2225.9+u	J2+12	971.6+v	J3+6	367.1[&] *2*	0.80[@] *12*	604.5+v	J3+4
3269.5+u	J2+16	539.7[&] *3*	0.70[@] *10*	2729.8+u	J2+14	1381.9+v	J3+8	410.3[&] *4*	0.96[@] *17*	971.6+v	J3+6
3844.5+u	J2+18	575.0[&] *1*	0.71[@] *12*	3269.5+u	J2+16	1834.5+v	J3+10	452.6[&] *3*	1.04[@] *15*	1381.9+v	J3+8
4454.0+u	J2+20	609.5[&] *1*	0.64[@] *8*	3844.5+u	J2+18	2328.6+v	J3+12	494.1[&] *2*	0.79[@] *12*	1834.5+v	J3+10
5096.7+u	J2+22	642.7[&] *2*	0.50[@] *5*	4454.0+u	J2+20	2864.0+v	J3+14	535.4[&] *3*	0.71[@] *15*	2328.6+v	J3+12
5772.8+u	J2+24	676.1[&] *3*	0.40[@] *5*	5096.7+u	J2+22	3439.0+v	J3+16	575.0[&] *4*	0.73[@] *15*	2864.0+v	J3+14
6481.3+u	J2+26	708.5[&] *3*	0.33[@] *6*	5772.8+u	J2+24	4053.3+v	J3+18	614.3[&] *5*	0.58[@] *11*	3439.0+v	J3+16
7221.3+u	J2+28	740.0[&] *3*		6481.3+u	J2+26	4704.1+v	J3+20	650.8[&] *6*	0.50[@] *12*	4053.3+v	J3+18
7992.6+u	J2+30	771.3[&] *3*		7221.3+u	J2+28	5391.7+v	J3+22	687.6[&] *7*	0.46[@] *11*	4704.1+v	J3+20
8793.2+u	J2+32	800.5[&] *f* *10*		7992.6+u	J2+30	6114.9+v	J3+24	723.2[&] *8*	0.41[@] *9*	5391.7+v	J3+22
280.9+v	J3+2	280.9[&] *6*	0.22[@] *5*	v	J3≈(25/2)	6870.9+v	J3+26	756.0[&] *12*	0.32[@] *8*	6114.9+v	J3+24
604.5+v	J3+4	323.6[&] *2*	0.58[@] *9*	280.9+v	J3+2	7659.9+v	J3+28	789.0[&] *13*	0.19[@] *5*	6870.9+v	J3+26

[†] Energies and relative photon branching from (HI,xnγ), except as noted. Some γ rays from ^{191}Tl ε decay with doubtful placement in the adopted level scheme are not included in this list.
[‡] From ^{191}Tl ε decay (5.22 min).
[§] Weighted average of data from (HI,xnγ) and ^{194}Pt(α,^{7}nγ).
[&] Eγ from (HI,xnγ):SD dataset.
[@] Iγ from (HI,xnγ):SD dataset. Iγ are relative values within a SD band. These values were extracted from intensity plots of 1990Ca18 and 1995Ca15.
[#] From ce data in ^{191}Tl ε decay (5.22 min), unless otherwise specified.
[a] From ^{191}Tl ε decay (5.22 min), unless noted otherwise.
[b] Also from $\gamma(\theta)$ in (α,xnγ) and (HI,xnγ) reactions, assuming quadrupole transitions are stretched E2, and dipole transitions are M1+E2 (1975Li16,1974Be11,1986Hu02).
[c] From DCO ratios (1989Mo08) in (HI,xnγ):SD.
[d] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
[e] Multiply placed with undivided intensity.
[f] Placement of transition in the level scheme is uncertain.

$^{191}_{80}Hg_{111}$-19

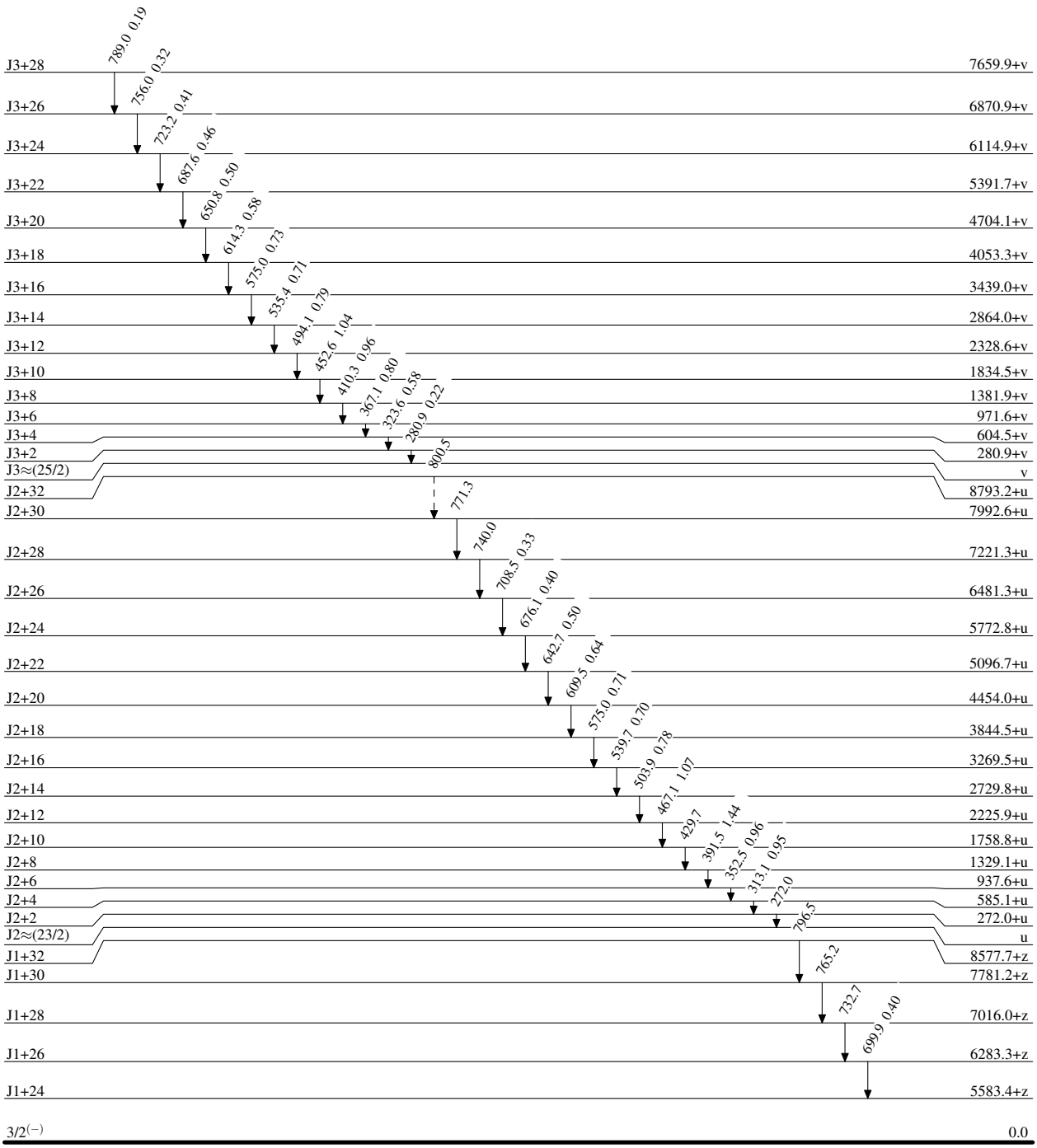
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)

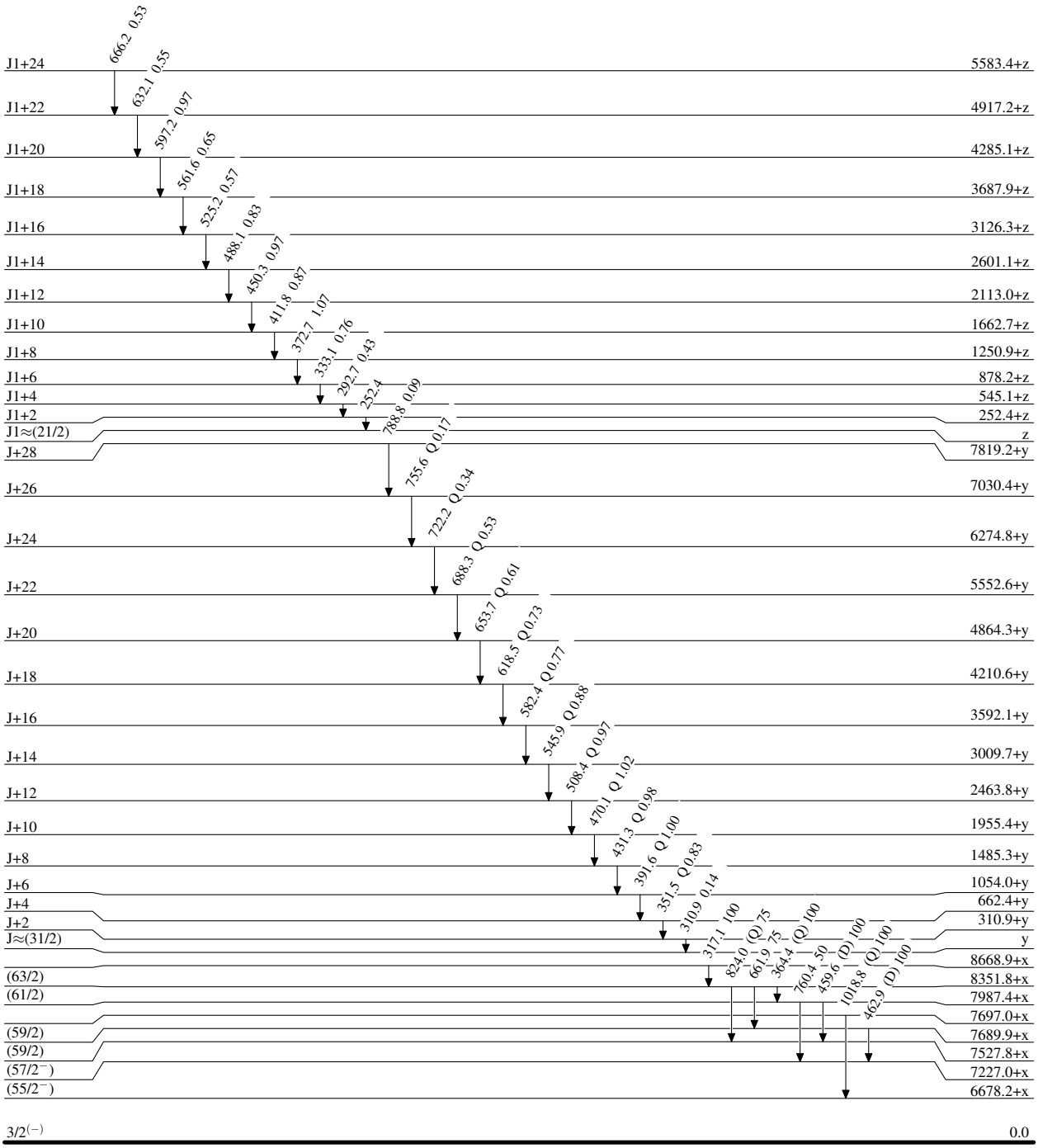


$^{191}_{80}Hg_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

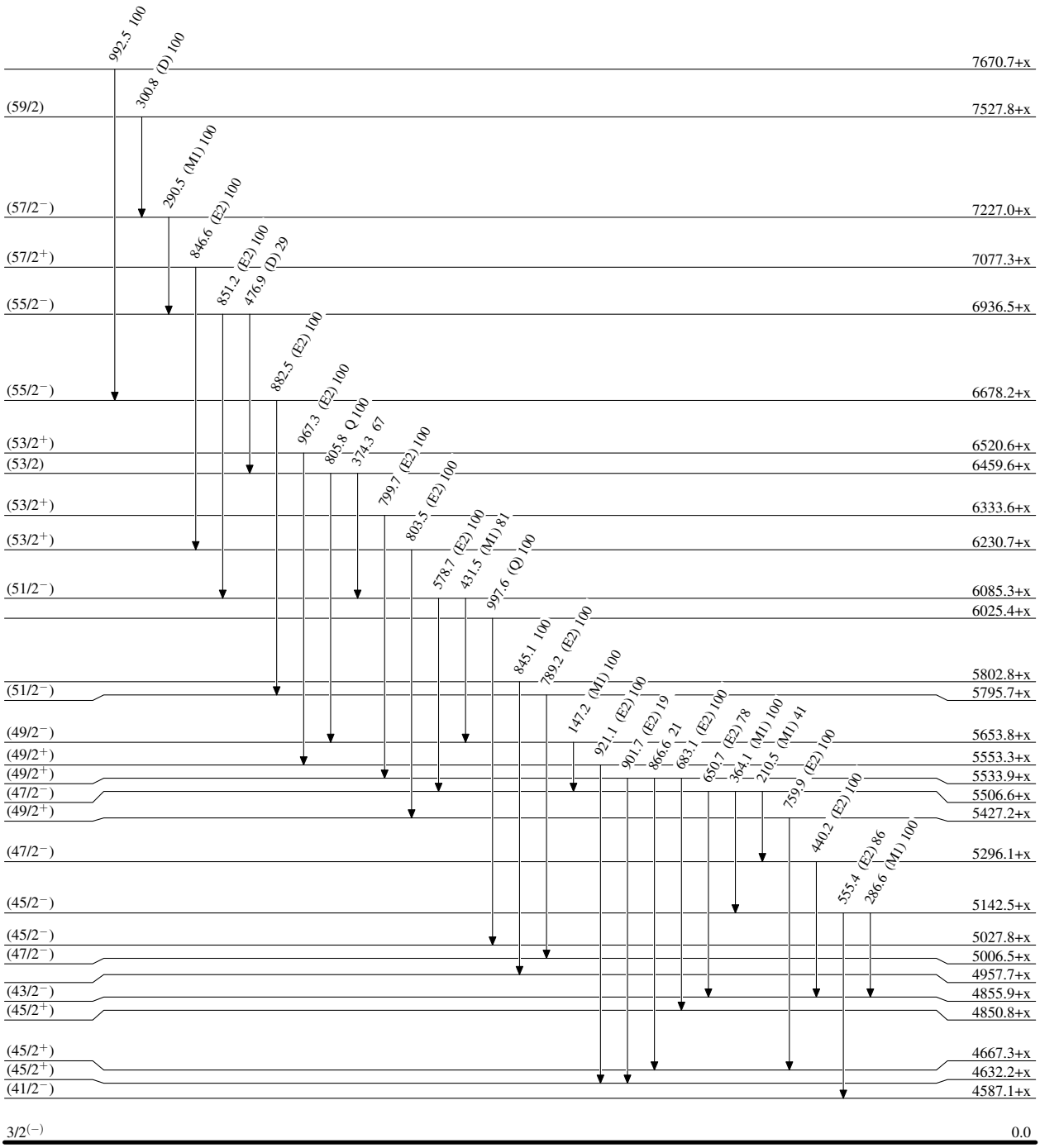


$^{191}_{80}Hg_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{191}_{80}Hg_{111}$

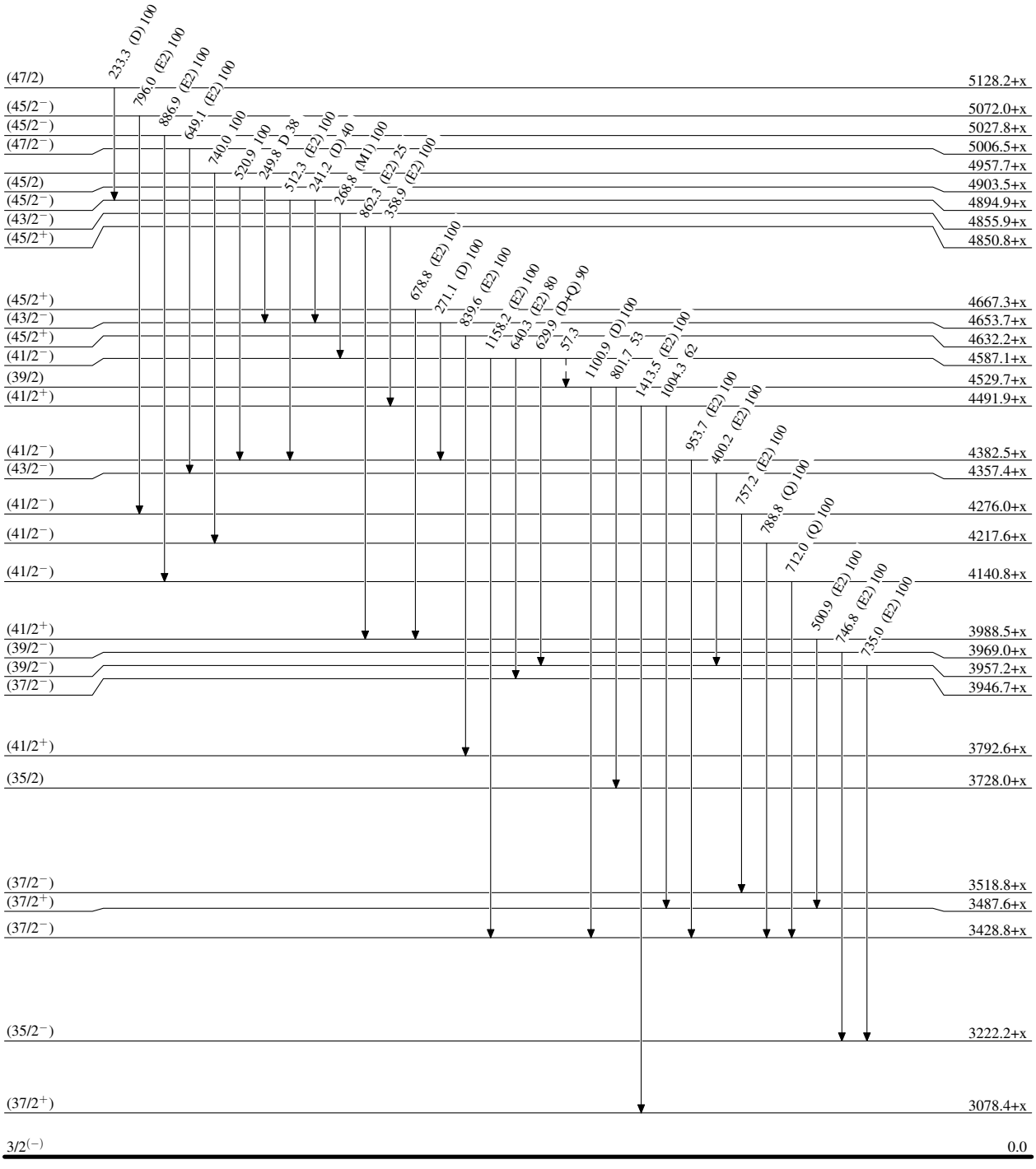
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)

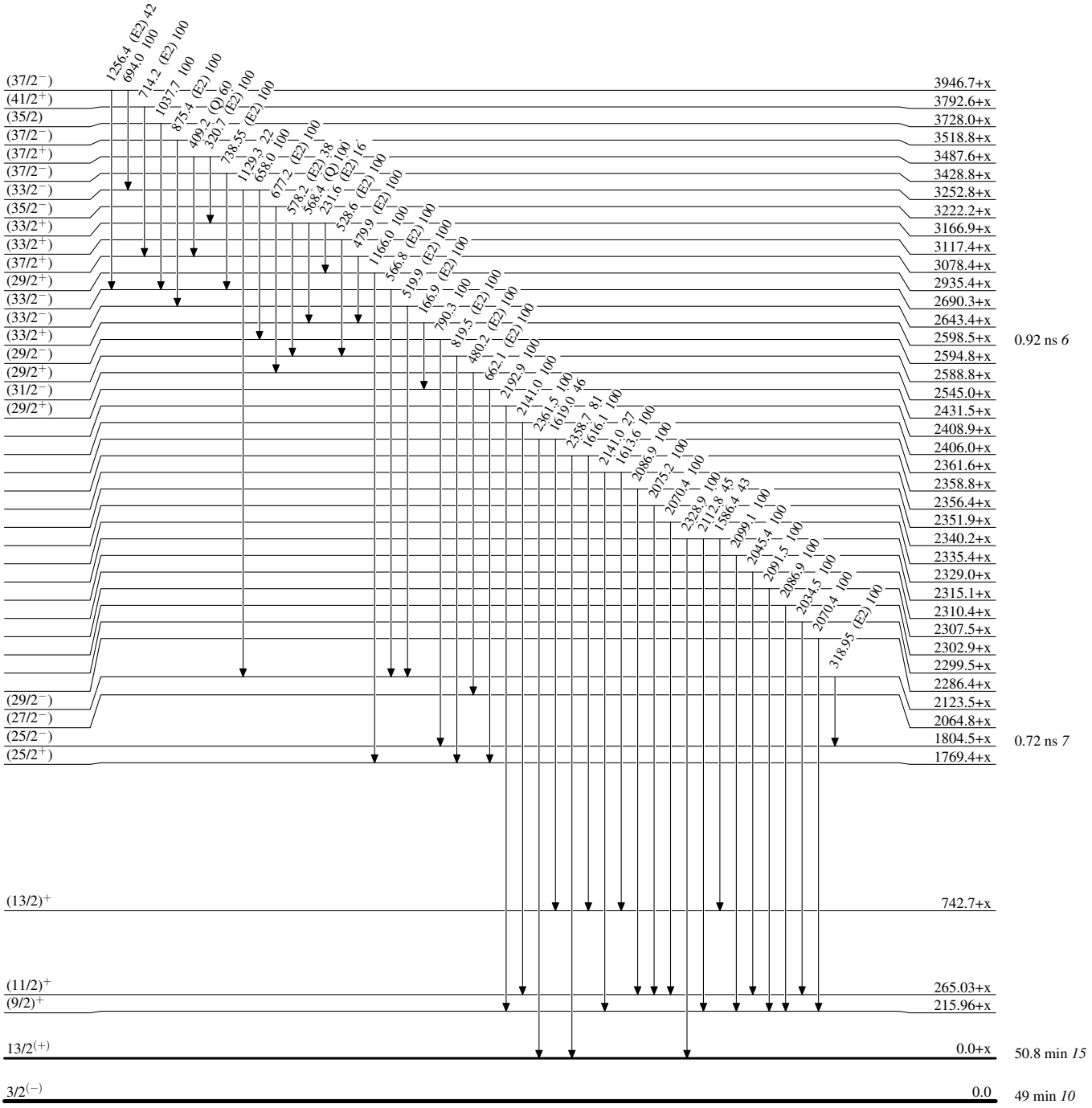


$^{191}_{80}Hg_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

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

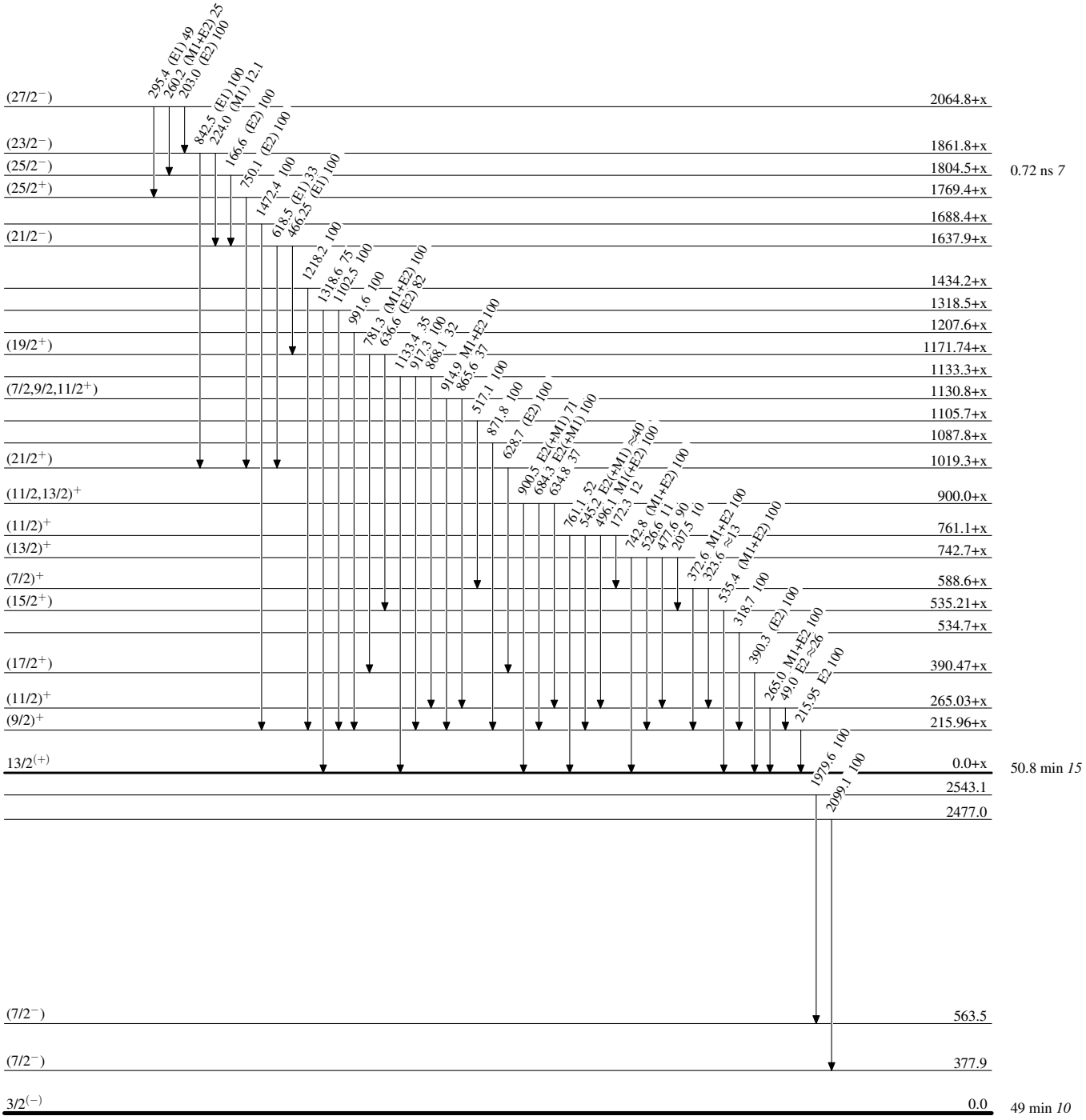


$^{191}_{80}Hg_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

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



$^{191}_{80}Hg_{111}$

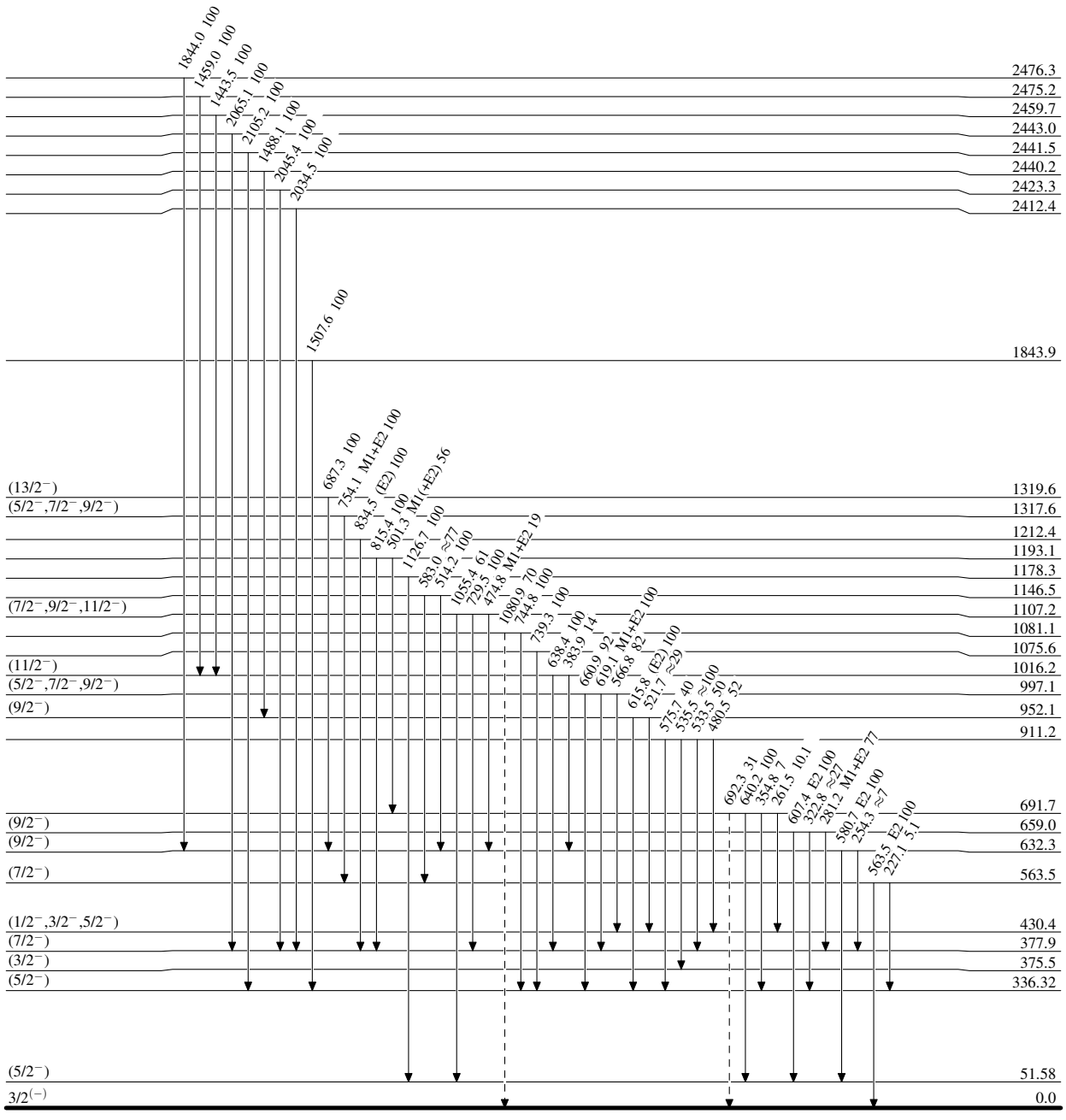
Adopted Levels, Gammas

Legend

Level Scheme (continued)

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

- - - - - - ► γ Decay (Uncertain)

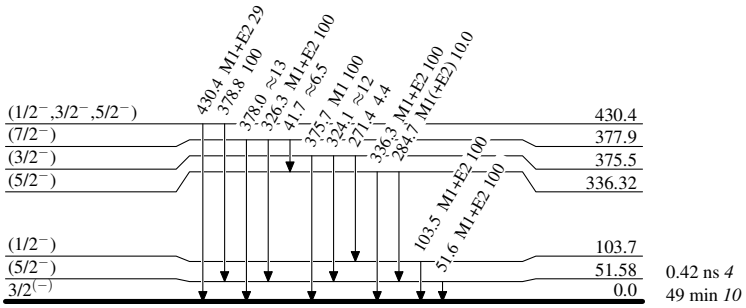


$^{191}_{80}Hg_{111}$

Adopted Levels, Gammas

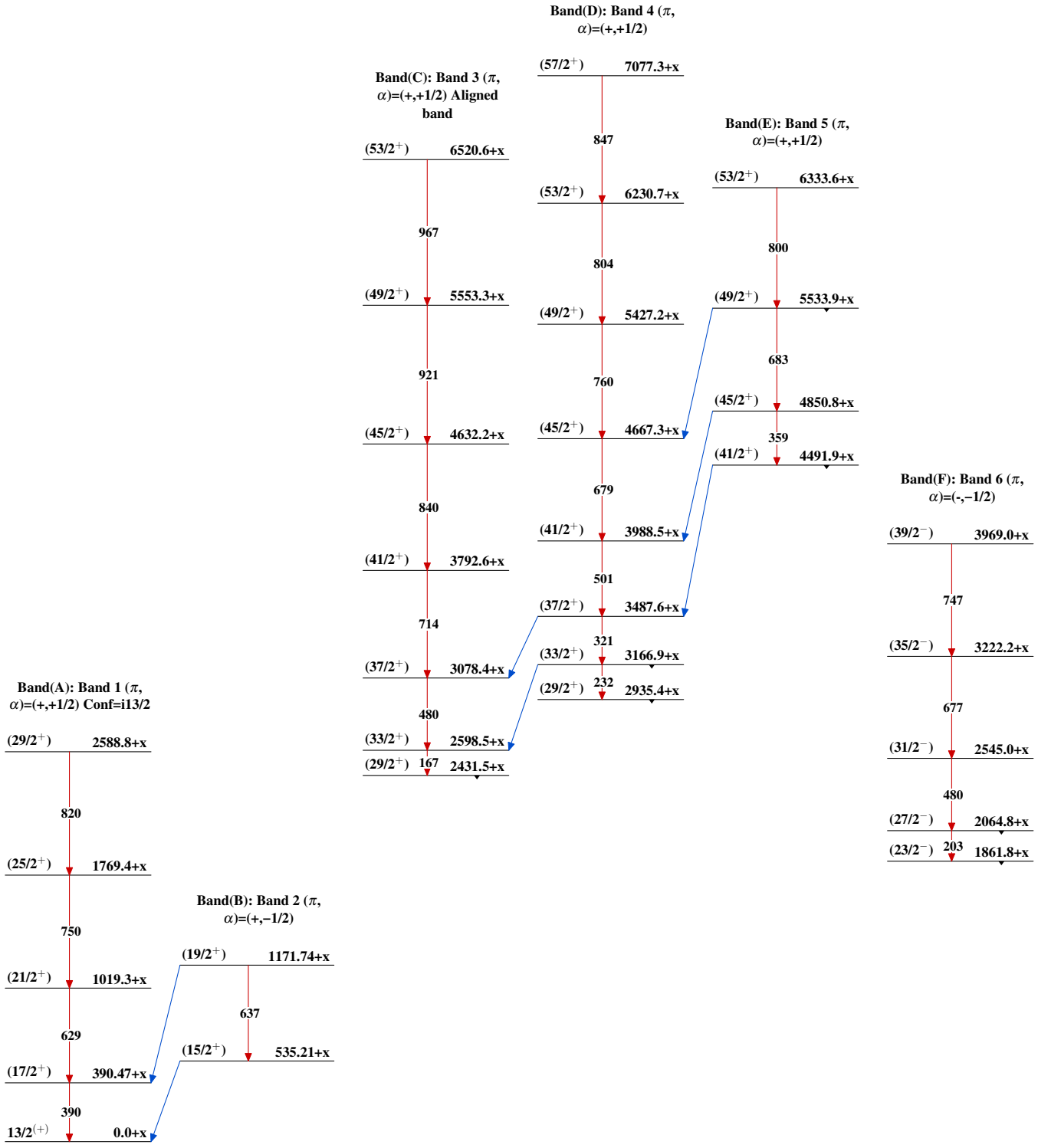
Level Scheme (continued)

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



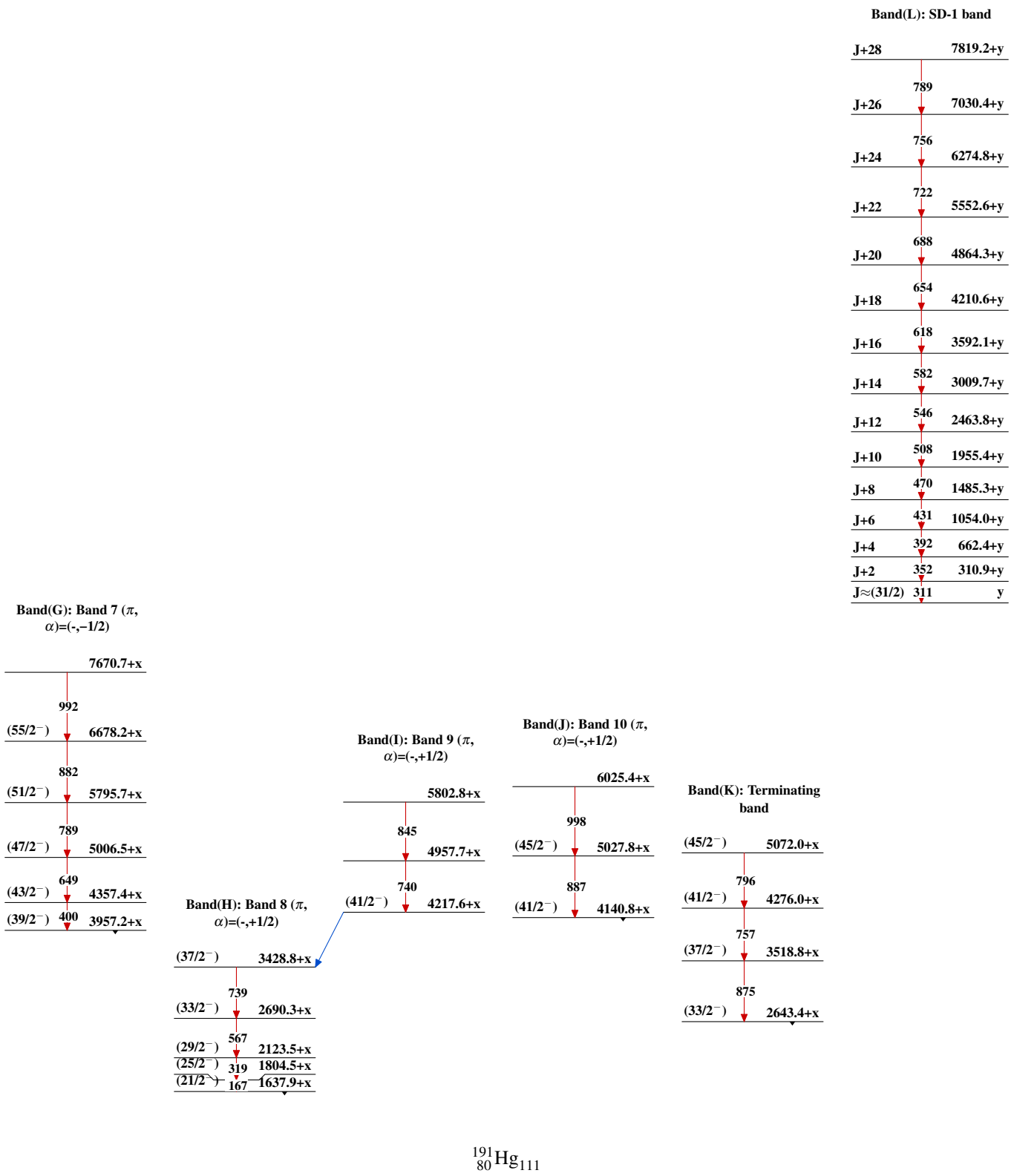
$^{191}_{80}Hg_{111}$

Adopted Levels, Gammas



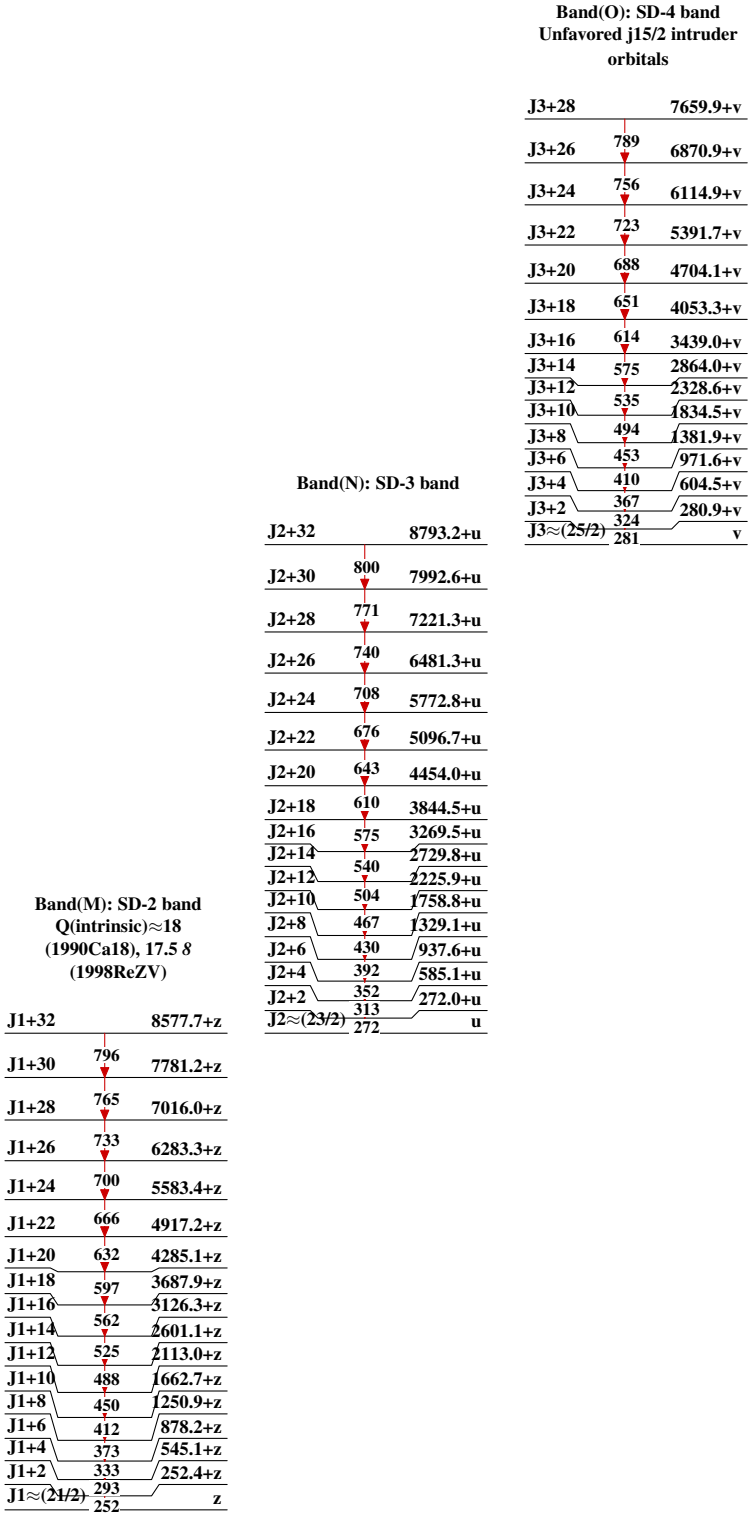
$^{191}_{80}Hg_{111}$

Adopted Levels, Gammas (continued)



$^{191}_{80}Hg_{111}$

Adopted Levels, Gammas (continued)



$^{191}_{80}Hg_{111}$