Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong, Zhou Chunmei	NDS 104,283 (2005)	1-Jan-2002

Q(β^-)=−2201 *17*; S(n)=6785.6 *15*; S(p)=6690 *4*; Q(α)=1516 *4* 2012Wa38
Note: Current evaluation has used the following Q record −2200 17 *6785.6 15* 6689.9 *34* 1511.1 *36* 2003Au03.

^{197}Hg Levels

For interacting boson model, see 1985Mo06, 1984Ku08, and 1984Va36.
For new supersymmetry scheme, see 1983Su03.
For coupled-channels calculations, see 1983Ha33.
For particle-vibrator coupling model, see 1982So05.
For cranking model, see 1982Gu06.
For interacting boson-fermion model analysis of β decay for ^{197}Hg, see 1988Na03.
For neutron resonance parameters and thermal cross section, see 1984MuZY.

Cross Reference (XREF) Flags

A	^{197}Hg IT decay (23.8 h)	D	^{198}Hg(p,d)
B	^{197}Tl ε decay (2.84 h)	E	^{198}Hg(d,t)
C	Pt(α,xnγ)		

E(level)†	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	1/2$^-$	64.14 h *5*	ABCDE	%ε=100 μ=+0.5273744 *9*(^{199}Hg standard,2001StZZ,1989Ra17,1973Re04). μ: Optical pumping, NMR (1973Re04). J$^\pi$: from optical spectroscopy and μ analysis (1973Re04,1976Fu06,1978LeZA). T$_{1/2}$: from 1966El09. Others: 1943Fr01, 1948Hu24, 1952Co01, 1963Ti02, 1967Bu22, 1967Ki11. Change of mean-square charge radius Δ<r^2>=−0.0532 (fm)^2 20 (1986Ul02). <β_2^2>$^{1/2}$=+0.106 *2* (1986Ul02). See also 1986He27.
133.96 *4*	5/2$^-$	8.07 ns *16*	ABCDE	μ=+0.855 *15*(^{199}Hg 158 standard,2001StZZ, 1989Ra17,1977Kr11). Q=−0.081 *6* (^{199}Hg 158 standard,2001StZZ, 1989Ra17,1981Kr16,1980Kr12,1980He05), 0.080 *10* (^{197}Hg 299 standard, 2001StZZ,1989Ra17,1980He05; ^{199}Hg standard, 1989Ra17,1973Re04). J$^\pi$: E2 γ to 1/2$^-$, M4 γ from 13/2$^+$. T$_{1/2}$: from 1977Kr11 ((ce)γ(t) in ^{197}Hg IT decay (23.8 h)). Others: 8 ns *1* (1950De06), 7 ns *1* (1950Mc12), 7.0 ns *2* (1961Su11), 7.3 ns 2 (1970Ge01).
152.14 *4*	(3/2)$^-$		BCDE	J$^\pi$: M1 γ to 1/2$^-$, (M1) γ to 5/2$^-$.
250 *1*			E	
298.93‡ *8*	13/2$^+$	23.8 h *1*	A C	%ε=8.6 *7*; %IT=91.4 *7* (1993Ch44) μ=−1.0276844 *26* (^{199}Hg standard,2001StZZ, 1989Ra17,1978LeZA,1973Re04). Q=+1.24 *14* (^{201}Hg standard, 2001StZZ, 1989Ra17,1986Ul02,1978LeZA). Change of mean-square charge radius Δ<r^2>=−0.0427 (fm)^2 16 (1986Ul02). <β_2^2>$^{1/2}$=+0.110 *2* (1986Ul02). J$^\pi$: from optical spectroscopy and μ analysis (1973Re04,1976Fu06,1978LeZA). T$_{1/2}$: from 1966El09. Other: 23.5 h *3* (1971KhZV). See also 1943Fr01, 1951Hu17, 1954Br56, 1963Ti02, 1967Bu22, 1967Ki11.
307.77 *6*	(5/2)$^-$		BCDE	XREF: E(305). J$^\pi$: M1 γ to 5/2$^-$, (E2) γ to 1/2$^-$; relative excitation function in (α,xnγ) indicates J(307.8)>J(308.5). J=3/2 is not favored.
308.50 *6*	(3/2$^-$)		BCD	J$^\pi$: (M1) γ to 1/2$^-$, (M1+E2) γ to (3/2)$^-$. See also *J$^\pi$* comment on 307.8-keV

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Adopted Levels, Gammas (continued)

^{197}Hg Levels (continued)

E(level)†	Jπ	T1/2	XREF	Comments
				level.
477.72 *13*	9/2+,11/2+,13/2+		C E	XREF: E(475). Jπ: M1+E2 351.4γ from 11/2+ relative excitation function in Pt(α,xnγ) suggests J=9/2.
509.0 *3*			C	
557.77 *12*	(5/2−,7/2−)		BC	Jπ: (M1,E2) γ to 5/2−, no feeding to this level from 1/2+ ε decay (2.84 h).
578.00 *6*	(3/2)−		B	Jπ: γ's to 1/2− and 5/2− are M1 and (M1), respectively.
585.38 *6*	(3/2)−		B	Jπ: γ's to 1/2− and 5/2− are (M1) and M1, respectively.
652.7‡ *3*	17/2+		C	Jπ: intraband E2 to 13/2+ base state, 354γ(θ), Coul. ex.
675 *3*	(5/2−,7/2−)		E	Jπ: L=(3) in ^{198}Hg(d,t).
676.75 *24*	1/2−,3/2−		B	M1 γ to 1/2− (g.s.).
715.36 *11*	9/2−		C	Jπ: E2 γ to 5/2−, 581γ(θ) in Pt(α,xnγ).
792.04 *5*	1/2−,3/2−		B E	XREF: E(789). Jπ: γ's to 1/2− and 3/2− are M1.
829.07 *16*	11/2+		C	Jπ: γ's to 9/2+ and 13/2+ are M1+E2; Coul. ex.
892.53 *6*	(3/2)−		B	Jπ: M1 γ to 1/2−, (M1) γ to (5/2)−.
903.6 *3*	(7/2)−		C	Jπ: E2 γ to 3/2−, γ(θ) in Pt(α,xnγ).
921.68 *21*			C	
940.72 *24*			C	
982.89 *7*	1/2−,3/2−		B	Jπ: γ's to 1/2− and 3/2− are M1.
1009.32 *7*	(1/2−)		B	Jπ: (E0+M1) γ to 1/2− (g.s.).
1026.24 *20*	15/2+		C	Jπ: M1+E2 γ to 13/2+, 727γ(θ) and Coul. ex. in Pt(α,xnγ).
1032.02 *24*			C	
1120 *5*	(5/2−,7/2−)		E	Jπ: L=(3) in ^{198}Hg(d,t).
1128.56 *23*			C	
1145.24 *17*	(1/2−,3/2−)		B E	Jπ: L=(1) in ^{198}Hg(d,t).
1174.95 *18*	(13/2+)		C	Jπ: γ's to 9/2+ and 17/2+.
1180 *5*			E	Jπ: L=(1,3) in ^{198}Hg(d,t).
1259.3 *4*			C	
1273.5‡ *3*	21/2+		C	Jπ: E2 γ to 17/2+, 621γ excit and γ(θ) in Pt(α,xnγ).
1306 *6*			E	
1343.9 *3*			C	Jπ: 691γ excit suggests J=17/2 (1977Ke18).
1381.66 *23*	13/2−		C	Jπ: E2 γ to 9/2−, 666γ(θ) in Pt(α,xnγ).
1437.64 *6*	1/2−,3/2−		B E	Jπ: (M1) γ to 1/2−, M1(+E2) γ to (3/2)−, log *ft*=6.86 from 1/2+.
1536.8 *4*	(19/2+)		C	Jπ: M1+E2 γ to 17/2+, 884γ excit in Pt(α,xnγ).
1563.43 *6*	1/2−,3/2−		B	Jπ: log *ft*=6.1 from 1/2+.
1634.3 *3*	(21/2)+		C	Jπ: E2 γ to 17/2+, 981γ excit and γ(θ) in Pt(α,xnγ).
1634.6 *11*			C	Jπ: γ to 13/2−.
1682.2# *3*	21/2−		C	Jπ: E1 γ to 21/2+, 408.7γ(θ) in Pt(α,xnγ).
1693.73 *6*	1/2(−),3/2(−)		B	Jπ: γ-decays, probably M1, to 1/2−,3/2− states; log *ft*=6.24 from 1/2+.
1702.2 *4*	(17/2)+		C	Jπ: M1+E2 γ to 15/2+, γ(θ) Pt(α,xnγ) (1977Ke18).
1833.0# *4*	25/2−	1.13 ns *6*	C	T1/2: from (ce(L) 151γ)(t) pulsed beam (1978Me11). Jπ: E2 γ to 21/2−, γ(θ) in Pt(α,xnγ).
1865 *8*			E	
1919 *8*			E	
1955.8 *4*			C	
2037.0‡ *4*	25/2+		C	Jπ: E2 γ to 21/2+, γ(θ) in Pt(α,xnγ).
2081 *9*			E	
2095.9 *4*			C	Jπ: 263γ excit suggests J=27/2 (1977Ke18).
2161.6# *5*	29/2−		C	Jπ: E2 γ to 25/2−, 328.6γ(θ) in Pt(α,xnγ).
2196.2? *5*			C	
2228.6 *11*			C	
2253? *9*			E	

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Adopted Levels, Gammas (continued)

^{197}Hg Levels (continued)

E(level)†	J^π	$T_{1/2}$	XREF	Comments
2295.6 *4*	$(23/2)^+$		C	J^π: M1+E2 γ to $21/2^+$, $\gamma(\theta)$ in Pt(α,xnγ), 1022γ excit.
2710.4‡ *4*	$29/2^+$		C	J^π: E2 γ to $25/2^+$, 673$\gamma(\theta)$ in Pt(α,xnγ).
2768.6# *5*	$33/2^-$		C	J^π: E2 γ to $29/2^-$, 607$\gamma(\theta)$ in Pt(α,xnγ).
3045.1‡ *5*	$33/2^+$	≤0.2 ns	C	$T_{1/2}$: from (ce(K) 335γ)(t) pulsed beam (1978Me11). J^π: E2 γ to $29/2^+$, 335$\gamma(\theta)$ in Pt(α,xnγ).
3464.0‡ *5*	$37/2^+$		C	J^π: E2 γ to $33/2^+$, 419$\gamma(\theta)$ in Pt(α,xnγ).
4061.2‡ *6*	$41/2^+$		C	J^π: E2 γ to $37/2^+$, 597$\gamma(\theta)$ in Pt(α,xnγ).

† For states connecting transition γ rays, E(levels) are from level scheme and Eγ's, using least-squares fit to data.

‡ Band(A): Regular quadrupole band 1. ΔJ=2 sequence up to $41/2^+$ populated. See 1978Me11 for E(level) systematics of g.s. and $13/2^+$ bands in ^{190}Hg-^{200}Hg.

Band(B): Regular quadrupole band 2. See 1978Me11 for E(level) systematics in odd-mass ^{191}Hg-^{199}Hg, compared with $J^\pi=5^-$, 7^-, 9^-, 11^- sequences in even-mass ^{190}Hg-^{200}Hg.

γ(^{197}Hg)

All data are from ^{197}Tl ε decay (2.84 h), except as noted.

E_i(level)	J^π_i	E_γ	I_γ[†]	E_f	J^π_f	Mult.	δ	α[&]	Comments
133.96	5/2⁻	133.99 *7*	100	0.0	1/2⁻	E2		1.73	B(E2)(W.u.)=8.74 *25*
152.14	(3/2)⁻	18.18 *3*	0.06 *2*	133.96	5/2⁻	(M1)		227	
		152.22 *7*	100 *7*	0.0	1/2⁻	M1		2.48	
298.93	13/2⁺	164.97 *7*	100	133.96	5/2⁻	M4		348	B(M4)(W.u.)=1.87 *3*
307.77	(5/2)⁻	(155.60)	<2.73	152.14	(3/2)⁻				
		173.78 *10*	17.4 *13*	133.96	5/2⁻	M1		1.71	
		307.8 *2*	100 *18*	0.0	1/2⁻	(E2)		0.100	
308.50	(3/2⁻)	156.41 *12*	14 *3*	152.14	(3/2)⁻	(M1+E2)	2.0 *2*	1.22 *5*	
		(174.6)	<1.2	133.96	5/2⁻				
		308.6 *2*	100 *18*	0.0	1/2⁻	(M1)		0.35	
477.72	9/2⁺,11/2⁺,13/2⁺	178.8[‡] *1*	100[‡]	298.93	13/2⁺				
509.0		375.0 *3*	100	133.96	5/2⁻				
557.77	(5/2⁻,7/2⁻)	249.33 *12*	38 *5*	308.50	(3/2⁻)				
		(250.2)	<7	307.77	(5/2)⁻				
		(405.8)	<7	152.14	(3/2)⁻				
		423.3 *3*	100 *15*	133.96	5/2⁻	(M1,E2)		0.10[#] *5*	α=0.148 if mult=M1, α=0.0412 if mult=E2.
		(558.0)	<21	0.0	1/2⁻				
578.00	(3/2)⁻	269.57 *10*	4.0 *3*	308.50	(3/2⁻)	M1		0.50	
		270.2	<0.2	307.77	(5/2)⁻				
		425.84 *10*	100 *7*	152.14	(3/2)⁻	M1		0.146	
		444.08 *10*	4.4 *3*	133.96	5/2⁻	(E2+M1)	2.1 +*34*−*7*	0.054 *15*	
		577.97 *10*	35 *3*	0.0	1/2⁻	M1		0.066	
585.38	(3/2)⁻	(276.7)	<0.5	308.50	(3/2⁻)				
		277.63 *10*	10.5 *8*	307.77	(5/2)⁻	M1		0.464	
		433.14 *10*	100 *7*	152.14	(3/2)⁻	M1		0.14	
		451.42 *10*	42 *3*	133.96	5/2⁻	(E2+M1)	1.7 +*7*−*6*	0.058 *18*	
		585.24 *17*	20 *2*	0.0	1/2⁻	(M1)		0.063	
652.7	17/2⁺	354.0[‡]	100[‡]	298.93	13/2⁺	E2[‡]		0.067	
676.75	1/2⁻,3/2⁻	676.75 *24*	100	0.0	1/2⁻	M1		0.044	
715.36	9/2⁻	581.4[‡] *1*	100[‡]	133.96	5/2⁻	E2[‡]		0.019	
792.04	1/2⁻,3/2⁻	(206.8)	<0.8	585.38	(3/2)⁻				
		(214.1)	<0.8	578.00	(3/2)⁻				
		234.1	<1.5	557.77	(5/2⁻,7/2⁻)				
		483.98 *10*	14.0 *11*	308.50	(3/2⁻)	M1+E2	0.66 +*45*−*4*	0.081 *19*	
		(484.3)	<1.5	307.77	(5/2)⁻				
		639.92 *10*	49 *4*	152.14	(3/2)⁻	M1		0.050	
		658.00 *11*	5.9 *8*	133.96	5/2⁻				

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Adopted Levels, Gammas (continued)

γ(^{197}Hg) (continued)

E_i(level)	J^π_i	E_γ	I_γ[†]	E_f	J^π_f	Mult.	δ	α[&]
792.04	1/2⁻,3/2⁻	792.06 *10*	100 *8*	0.0	1/2⁻	M1+E2	1.24 *+71−3*	0.017 *4*
829.07	11/2⁺	351.4[‡] *2*	74[‡]	477.72	9/2⁺,11/2⁺,13/2⁺	M1+E2[‡]		0.16[#] *9*
		530.1[‡] *2*	100[‡]	298.93	13/2⁺	M1+E2[‡]		0.05[#] *3*
892.53	(3/2)⁻	(307.2)	<3.4	585.38	(3/2)⁻			
		(314.5)	<1.1	578.00	(3/2)⁻			
		(334.5)	<2.3	557.77	(5/2⁻,7/2⁻)			
		(583.9)	<2.3	308.50	(3/2⁻)			
		585.24 *17*	36 *5*	307.77	(5/2)⁻	(M1)		0.064
		740.05 *18*	2.7 *5*	152.14	(3/2)⁻			
		758.57 *11*	10 *1*	133.96	5/2⁻			
		892.47 *10*	100 *7*	0.0	1/2⁻	M1		0.021
903.6	(7/2)⁻	595.1[‡] *3*	100[‡]	308.50	(3/2⁻)	E2[‡]		0.018
921.68		613.9[‡] *2*	100[‡]	307.77	(5/2)⁻			
940.72		463.0[‡] *2*	100[‡]	477.72	9/2⁺,11/2⁺,13/2⁺			
982.89	1/2⁻,3/2⁻	397.49 *11*	6.8 *8*	585.38	(3/2)⁻	(M1)		0.175
		405.01 *17*	14.4 *12*	578.00	(3/2)⁻	M1		0.167
		674.28 *17*	100 *7*	308.50	(3/2⁻)	M1+E2	2.2 *+49−8*	0.019 *5*
		(675.0)	<3	307.77	(5/2)⁻			
		831.29 *19*	3.5 *5*	152.14	(3/2)⁻			
		(848.8)	<0.9	133.96	5/2⁻			
		982.75 *10*	86 *6*	0.0	1/2⁻	M1		0.0167
1009.32	(1/2⁻)	(424.0)	<0.6	585.38	(3/2)⁻			
		(431.3)	<0.6	578.00	(3/2)⁻			
		(451.3)	<1.3	557.77	(5/2⁻,7/2⁻)			
		(700.7)	<0.6	308.50	(3/2⁻)			
		701.53 *10*	50 *4*	307.77	(5/2)⁻	E2		0.013
		857.18 *10*	100 *7*	152.14	(3/2)⁻	M1		0.024
		(875.3)	<0.6	133.96	5/2⁻			
		1009.35 *10*	19.2 *15*	0.0	1/2⁻	(E0+M1)		0.06[@]
1026.24	15/2⁺	197[‡a]	≈10[‡]	829.07	11/2⁺			
		373.5[‡] *3*	14[‡]	652.7	17/2⁺			
		727.3[‡] *2*	100[‡]	298.93	13/2⁺	M1+E2[‡]		0.024[#] *13*
1032.02		554.3[‡] *2*	100[‡]	477.72	9/2⁺,11/2⁺,13/2⁺			
1128.56		413.2 *2*	100	715.36	9/2⁻	[‡]		
1145.24	(1/2⁻,3/2⁻)	1145.2 *2*	100	0.0	1/2⁻			
1174.95	(13/2⁺)	148.8[‡a] *3*	6.7[‡]	1026.24	15/2⁺			
		345.9[‡] *3*	27[‡]	829.07	11/2⁺			
		522.2[‡] *3*	≈83[‡]	652.7	17/2⁺			

$^{197}_{80}Hg_{117}$-5

$\gamma(^{197}Hg)$ (continued)

E_i(level)	J^π_i	E_γ	I_γ[†]	E_f	J^π_f	Mult.	δ	α[&]	Comments
1174.95	(13/2$^+$)	697[‡a]	≈67[‡]	477.72	9/2$^+$,11/2$^+$,13/2$^+$				
		876.0[‡] *2*	100[‡]	298.93	13/2$^+$				
1259.3		430.2[‡] *3*	100[‡]	829.07	11/2$^+$				
1273.5	21/2$^+$	620.8[‡] *1*	100[‡]	652.7	17/2$^+$	E2[‡]		0.017	
1343.9		691.1[‡] *2*	100[‡]	652.7	17/2$^+$				
1381.66	13/2$^-$	666.3[‡] *2*	100[‡]	715.36	9/2$^-$	E2[‡]		0.014	
1437.64	1/2$^-$,3/2$^-$	545.12 *11*	16.3 *14*	892.53	(3/2)$^-$	M1+E2	0.78 *+49−3*	0.056 *13*	
		645.41 *12*	18.4 *21*	792.04	1/2$^-$,3/2$^-$	(M1)		0.049	
		851.9 *4*	3.4 *11*	585.38	(3/2)$^-$	(M1)		0.024	
		1130.1 *3*	7.5 *10*	307.77	(5/2)$^-$				
		1285.59 *10*	100 *8*	152.14	(3/2)$^-$	(M1)		0.0085	
		1437.67 *10*	72 *5*	0.0	1/2$^-$	(M1)		0.0064	
1536.8	(19/2$^+$)	511[‡a]	≈9[‡]	1026.24	15/2$^+$				
		884.1[‡] *2*	100[‡]	652.7	17/2$^+$	M1+E2[‡]		0.015[#] *7*	
1563.43	1/2$^-$,3/2$^-$	771.23 *12*	1.9 *3*	792.04	1/2$^-$,3/2$^-$				
		1254.51 *17*	10.0 *17*	308.50	(3/2$^-$)				
		1255.73 *12*	7.1 *15*	307.77	(5/2)$^-$				
		1411.34 *10*	100 *9*	152.14	(3/2)$^-$	(M1)		0.0067	
		1429.59 *10*	19.4 *15*	133.96	5/2$^-$				
		1563.42 *12*	1.7 *2*	0.0	1/2$^-$				
1634.3	(21/2)$^+$	290.3[‡] *3*	8.9[‡]	1343.9					
		981.6[‡] *2*	100[‡]	652.7	17/2$^+$	E2[‡]		0.0063	
1634.6		252.9[‡]	100[‡]	1381.66	13/2$^-$				
1682.2	21/2$^-$	408.7[‡] *1*	100[‡]	1273.5	21/2$^+$	E1[‡]		0.014	
1693.73	1/2$^{(-)}$,3/2$^{(-)}$	548.4 *3*	3.0 *8*	1145.24	(1/2$^-$,3/2$^-$)				
		901.61 *10*	30 *2*	792.04	1/2$^-$,3/2$^-$	(M1)		0.021	
		1108.0 *2*	7.3 *14*	585.38	(3/2)$^-$				
		1385.35 *10*	100 *7*	308.50	(3/2$^-$)	(M1,E2)			
		1541.68 *11*	17.1 *14*	152.14	(3/2)$^-$				
		1693.67 *10*	55 *4*	0.0	1/2$^-$				
1702.2	(17/2)$^+$	358.7[‡a] *3*	1.0[‡]	1343.9					
		527.4[‡a] *3*	1.8[‡]	1174.95	(13/2$^+$)				
		676.0[‡] *3*	100[‡]	1026.24	15/2$^+$	M1+E2[‡]		0.029[#] *15*	
		1049.1[‡a] *3*	1.25[‡]	652.7	17/2$^+$				
		1404.1[‡a] *3*	1.70[‡]	298.93	13/2$^+$				
1833.0	25/2$^-$	150.8[‡] *2*	100[‡]	1682.2	21/2$^-$	E2[‡]		1.10	B(E2)(W.u.)=45 *3*

$^{197}_{80}Hg_{117}$-6

Adopted Levels, Gammas (continued)

$\gamma(^{197}Hg)$ (continued)

E_i(level)	J^π_i	E_γ	I_γ[†]	E_f	J^π_f	Mult.	α[&]	Comments
1955.8		273.6[‡] 2	100[‡]	1682.2	21/2$^-$			
2037.0	25/2$^+$	763.5[‡] 2	100[‡]	1273.5	21/2$^+$	E2[‡]	0.0105	
2095.9		262.9[‡] 2	100[‡]	1833.0	25/2$^-$			
2161.6	29/2$^-$	328.6[‡] 3	100[‡]	1833.0	25/2$^-$	E2[‡]	0.0825	
2196.2?		659.3[‡] 3	100[‡]	1536.8	(19/2$^+$)			
2228.6		395.6[‡]	100[‡]	1833.0	25/2$^-$			
2295.6	(23/2)$^+$	1022.1[‡] 2	100[‡]	1273.5	21/2$^+$	M1+E2[‡]	0.010[#] 5	
2710.4	29/2$^+$	673.4[‡] 2	100[‡]	2037.0	25/2$^+$	E2[‡]	0.014	
2768.6	33/2$^-$	607.0[‡] 2	100[‡]	2161.6	29/2$^-$	E2[‡]	0.017	
3045.1	33/2$^+$	334.7 2	100	2710.4	29/2$^+$	E2	0.078	B(E2)(W.u.)>9.1
3464.0	37/2$^+$	418.8[‡] 2	100[‡]	3045.1	33/2$^+$	E2[‡]	0.042	
4061.2	41/2$^+$	597.2[‡] 2	100[‡]	3464.0	37/2$^+$	E2[‡]	0.018	

[†] Relative photon branching from each level.

[‡] From Pt(α,xnγ).

[#] From α=[α(M1) + α(E2)]/2 and $\Delta\alpha$=[α(M1) − α(E2)]/2.

[@] From ^{197}Tl ε decay (2.84 h).

[&] 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.

[a] Placement of transition in the level scheme is uncertain.

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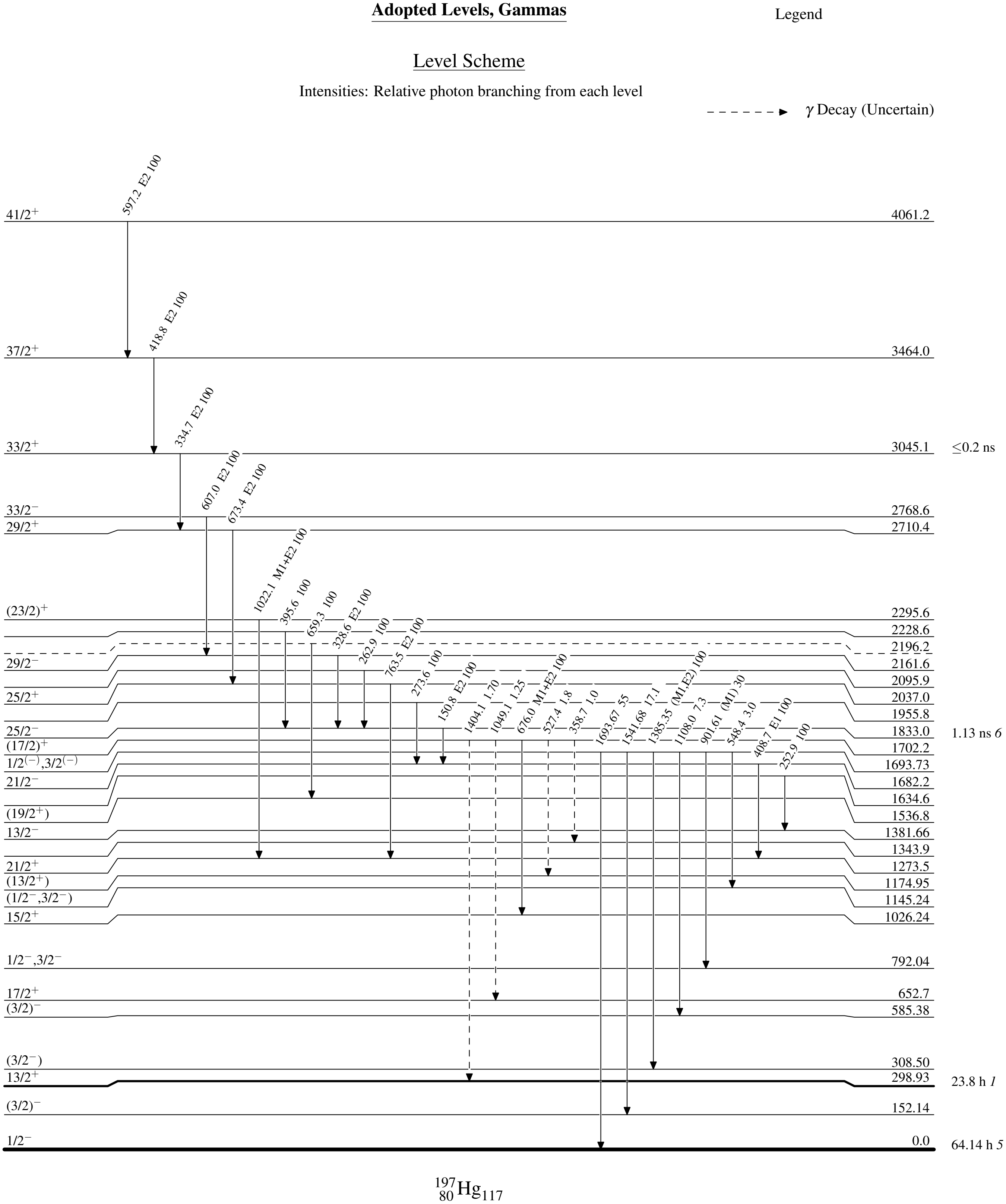
Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level



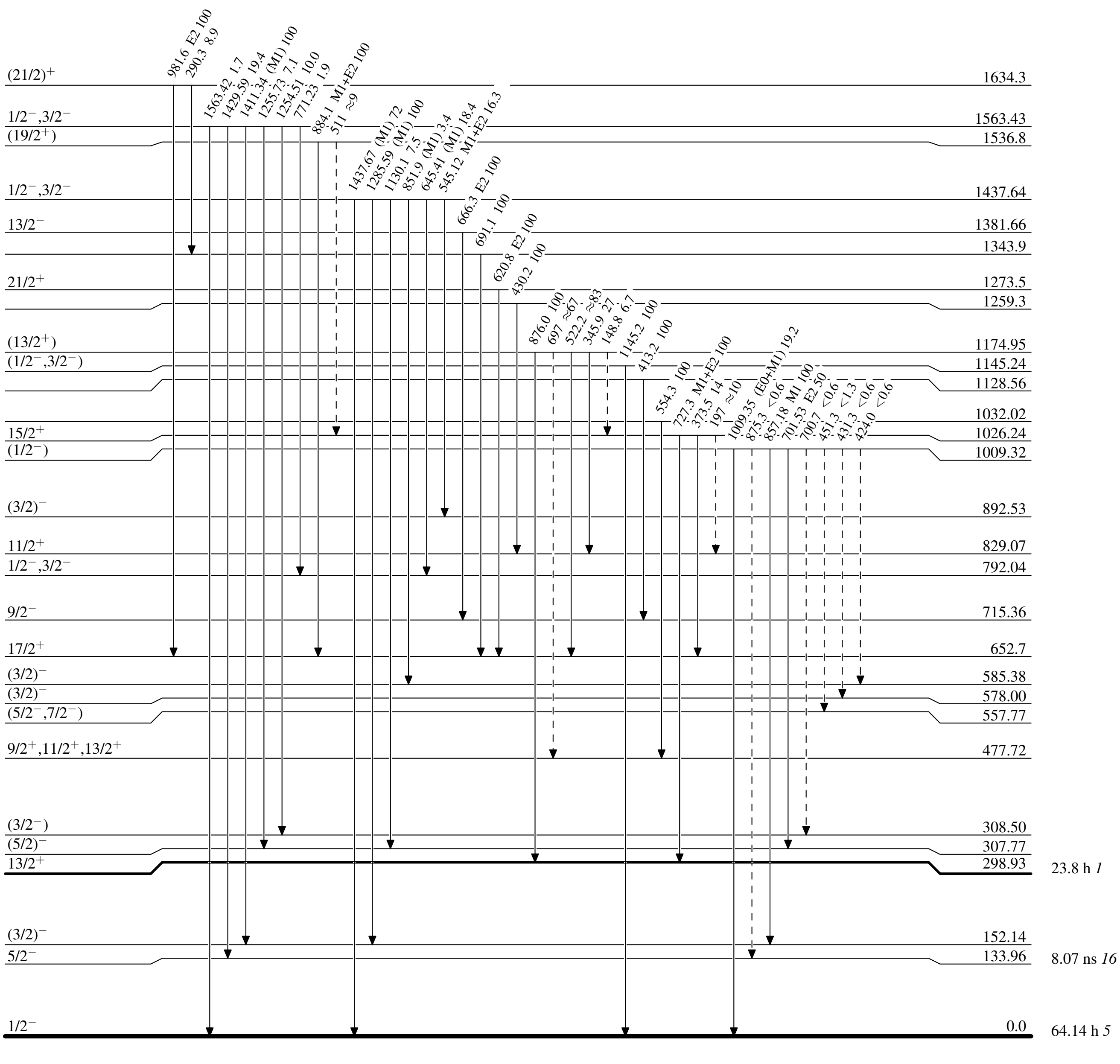
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - ► γ Decay (Uncertain)



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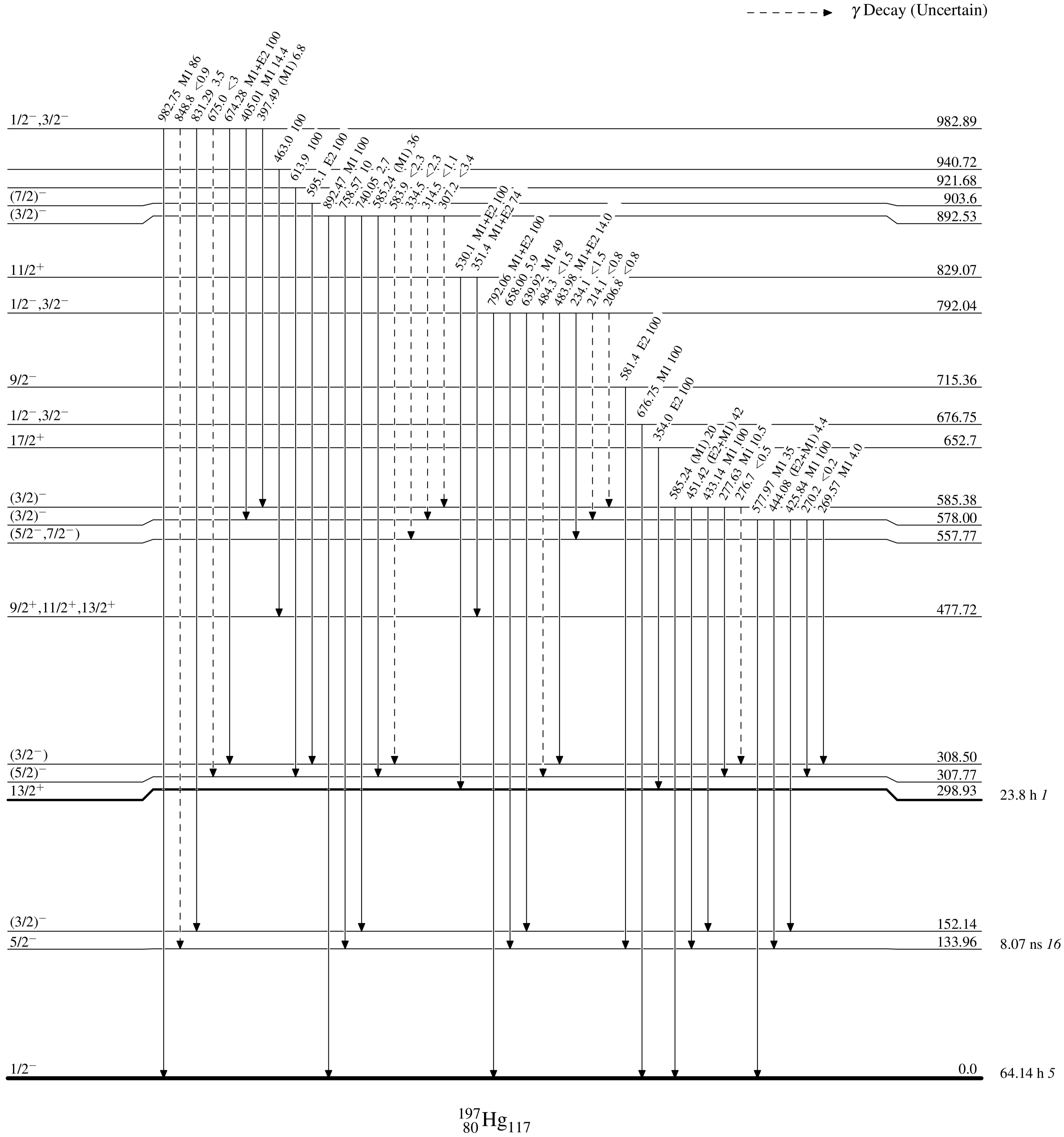
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

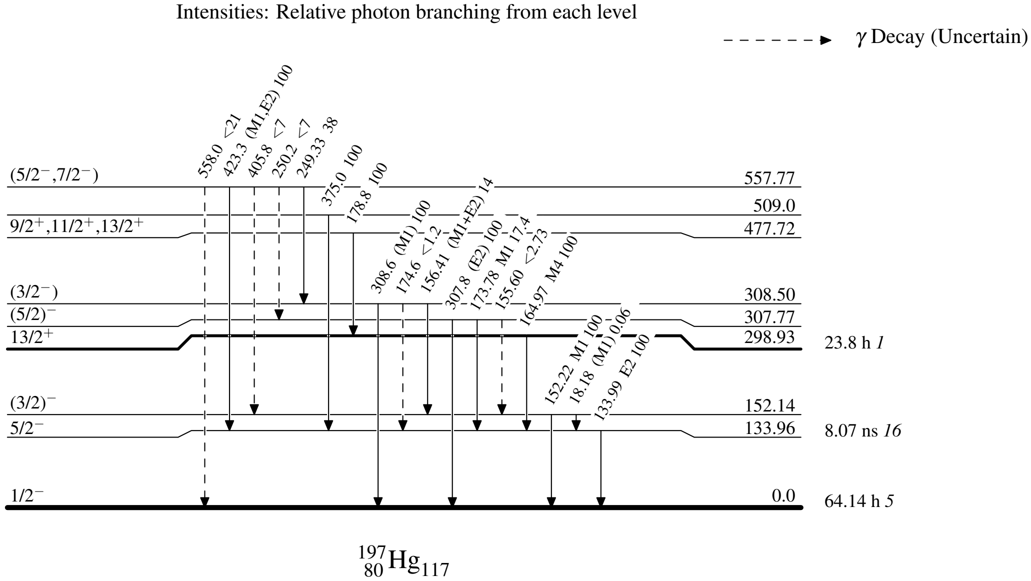


Adopted Levels, Gammas

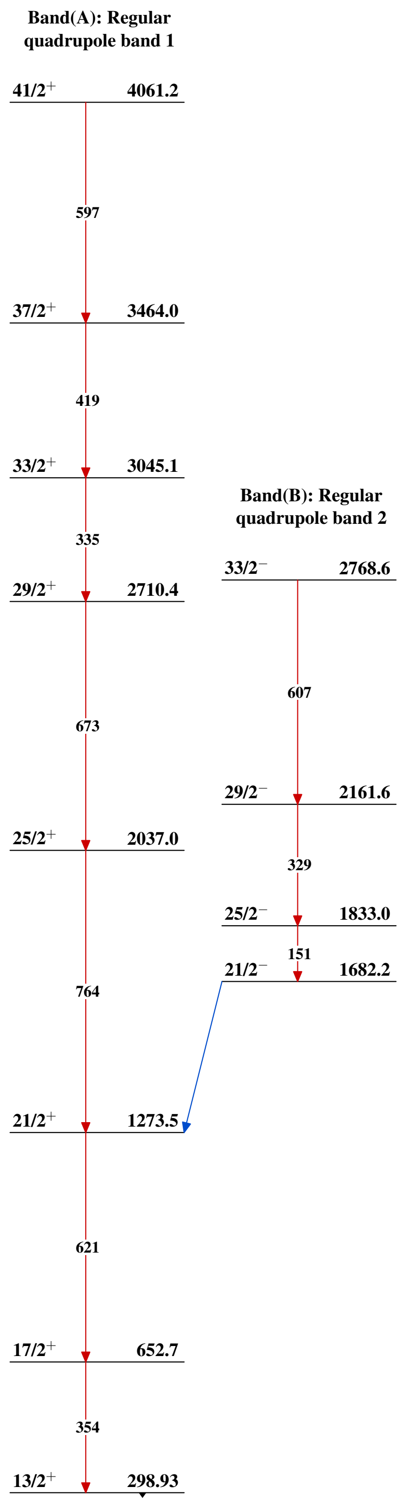
Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level



Adopted Levels, Gammas



$^{197}_{80}Hg_{117}$