

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 111,275 (2010)	1-Oct-2009

$Q(\beta^-) = -9475$ 23; $S(n) = 10615$ 13; $S(p) = 3449$ 14; $Q(\alpha) = 5662$ 5 [2012Wa38](#)

Note: Current evaluation has used the following Q record -9460 50 10619 13 3451 15 5662 4 [2003Au03,2009AuZZ](#).

$S(n)$: From [2009AuZZ](#); 10621 13 in [2003Au03](#).

For isotope shift data see, e.g., [1977Kul1](#).

 ^{184}Hg LevelsCross Reference (XREF) Flags

- A $^{156}\text{Gd}(^{32}\text{S}, 4n\gamma)$: E=156,160 MeV
 B ^{184}Tl ε decay
 C ^{188}Pb α decay
 D $^{156}\text{Gd}(^{32}\text{S}, 4n\gamma)$: E=163 MeV

E(level) [†]	J^π [‡]	$T_{1/2}$ [#]	XREF	Comments
0.0 ^d	0 ⁺ ^e	30.87 s 26	ABCD	$\% \varepsilon + \% \beta^+ = 98.89$ 6; $\% \alpha = 1.11$ 6 $\% \alpha$: from 1980Sc09 by comparing parent and daughter activities. Other $\% \alpha$: 1.25 20 from 1970Ha18 . $\langle r^2 \rangle^{1/2}(\text{charge}) = 5.395$ 5 (2004An14). $\Delta \langle r^2 \rangle(^{198}\text{Hg}, ^{184}\text{Hg}) = -0.5337$ 13 (1986UI02). J^π : g.s. of even-even nucleus. $T_{1/2}$: weighted average of 30.9 s 3 (1994Wa23), 30.6 s 3 (1972Fi12), 32.5 s 10 (1970Ha18) from 5535 α (t), 32.0 s 10 (1969Ha03).
366.78 ^d 9	2 ⁺ ^e	21 ps 5	ABCD	J^π : E2 367 γ to 0 ⁺ g.s.. $T_{1/2}$: from recoil distance in ($^{32}\text{S}, 4n\gamma$): E=156,160 MeV.
375.14 ^f 17	0 ⁺ ^g	0.62 ns 21	BC	J^π : E0 375-keV transition to 0 ⁺ g.s.. $T_{1/2}$: From ce- γ delayed coin (centroid shift) in ε decay.
534.42 ^f 8	2 ⁺ ^g		AB D	J^π : E0+M1+E2 168 γ to 2 ⁺ 367; Q 534 γ to 0 ⁺ g.s..
653.77 ^f 11	4 ⁺ ^g	22.7 ps 24	AB D	J^π : stretched E2 intraband 287 γ to 2 ⁺ 367. $T_{1/2}$: from recoil distance in ($^{32}\text{S}, 4n\gamma$): E=156,160 MeV.
983.51 24	(1,2 ⁺)		B	J^π : 608 γ to 0 ⁺ 375; 617 γ to 2 ⁺ 367.
993.91 ^f 12	6 ⁺ ^g	5.6 ps 21	AB D	$T_{1/2}$: from recoil distance in ($^{32}\text{S}, 4n\gamma$): E=156,160 MeV.
1086.56 ^d 10	4 ⁺ ^e		AB D	
1299.53 13	(3,4 ⁺)		A D	J^π : D 213 γ to 4 ⁺ 1087, so J=3,4,5; both ($^{32}\text{S}, 4n\gamma$) studies propose J=5. However, 765 γ to 2 ⁺ 534 is the strongest deexcitation branch so evaluator considers $J^\pi = (3,4^+)$ to be most likely.
1412.19 ^f 12	8 ⁺ ^g	2.0 ps +8-11	AB D	J^π : D 760 γ to 4 ⁺ 654; stretched Q intraband 390 γ from J=(7) 1803.
1413.26 ^h 13	(5)		A D	
1549.18 ^d 12	6 ⁺ ^e		A D	
1653.58 18	(5,6 ⁺)		A	J^π : 660 γ to 6 ⁺ 994; 1000 γ to 4 ⁺ 654; 219 γ from J=(7) 1873.
1750.99 18	(6 ⁺)		A	J^π : 757 γ to 6 ⁺ 994; 256 γ from J=(8) 2007; 452 γ to (3,4 ⁺) 1300. Not a member of J=(7) band based on its inconsistent intraband B(M1)/B(E2) ratio.
1803.16 ^h 13	(7)		A D	J^π : D $\Delta J=1$ 809 γ to 6 ⁺ 994; 391 γ to 8 ⁺ 1412; band assignment.
1817.14 12	(5,6 ⁺)		A D	J^π : 731 γ to 4 ⁺ 1087, 304 γ from J=7, 2121 favor $J^\pi = (5,6^+)$. J=6 proposed in ($^{32}\text{S}, 4n\gamma$).
1847.52 ^b 13	5 ^c		A D	J^π : stretched Q intraband 274 γ from J=7, 2121; D 1194 γ to 4 ⁺ 654.
1872.68 [@] 17	(7)		A	J^π : 879 γ to 6 ⁺ 994; band assignment.

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Adopted Levels, Gammas (continued) ^{184}Hg Levels (continued)

E(level) [†]	J ^π [‡]	T _{1/2} [#]	XREF	Comments
1901.41 ^f 14	10 ⁺ ^g	0.83 ps +17–26	A D	J ^π : D+Q 135 γ to J=(7) 1873 in signature partner band; band assignment.
2007.28 ^{&} 18	(8)		A	
2056.58 ^d 16	8 ⁺ ^e		A	
2063.47 ⁱ 15	(6)		A D	
2121.00 ^b 12	7 ^c		A D	
2170.88 [@] 18	(9)		A	
2256.47 ^h 13	(9)		A D	
2362.18 ^{&} 19	(10)		A	
2374.58 ⁱ 14	(8)		A D	
2450.09 ^b 14	9 ^c	0.47 ps +11–17	A D	J ^π : D+Q 571γ to J=(7) 1803; stretched Q intraband 311γ to J=(6) 2063; 963γ to 8 ⁺ 1412.
2452.70 ^f 16	12 ⁺ ^g		A D	
2579.08 [@] 19	(11)		A	
2612.08 ^d 19	10 ⁺ ^e		A	
2754.18 ⁱ 14	(10)		A D	
2767.37 ^h 15	(11)		A D	
2810.68 ^{&} 20	(12)		A	
2850.35 ^b 15	11 ^c		A D	
2966.78 ^a 22	(10)		A	
3056.60 ^f 19	14 ⁺ ^g	0.32 ps +10–13	A D	J ^π : 517γ to J=9 2450; band assignment.
3065.98 [@] 20	(13)		A	
3184.57 ⁱ 17	(12)		A D	
3295.55 ^b 17	13 ^c		A D	
3329.88 ^h 17	(13)		A D	
3331.18 ^{&} 21	(14)		A	
3407.08 ^a 21	(12)		A	
3619.78 [@] 22	(15)		A	
3635.17 ⁱ 20	(14)		A D	
3702.60 ^f 21	16 ⁺ ^g	0.25 ps +8–14	A D	J ^π : stretched Q 500γ to J=13, 3296; band assignment.
3704.85 ^b 20	15 ^c		A D	
3795.75 ^j 20	(15)		A	
3906.78 ^a 22	(14)		A	
3908.68 ^{&} 23	(16)		A	
3935.88 ^h 20	(15)		A D	
4125.47 ⁱ 22	(16)		A D	
4166.85 ^b 22	17 ^c		A D	
4228.08 [@] 23	(17)		A	
4365.35 ^j 23	(17)	0.187 ps 21	A	T _{1/2} : from DSAM in (³² S,4nγ): E=163 MeV (1995Sf01). Other: 0.21 ps +6–11 from DSAM in (³² S,4nγ): E=156,160 MeV.
4377.10 ^f 24	18 ⁺ ^g		A D	
4463.48 ^a 24	(16)		A	
4530.19 ^{&} 24	(18)		A	
4564.88 ^h 22	(17)		A D	
4672.87 ⁱ 24	(18)		A D	
4699.75 ^b 25	19 ^c		A D	

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Adopted Levels, Gammas (continued) ^{184}Hg Levels (continued)

E(level) [†]	J ^π [‡]	XREF	E(level) [†]	J ^π [‡]	XREF	E(level) [†]	J ^π [‡]	XREF
4862.2 [@] 3	(19)	A	5262.8 ⁱ 3	(20)	A D	5877.5 ^h 4	(21)	A
4958.26 ^j 25	(19)	A	5297.7 ^b 3	21 ^c	A D	5881.1 ⁱ 3	(22)	A D
5064.5 ^f 3	20 ^{+g}	A D	5598.3 ^j 11	(21)	A	5951.8 ^b 3	23 ^c	A D
5070.6 ^a 3	(18)	A	5699.8 ^a 3	(20)	A	6515.5 ^f 3	24 ^{+g}	A D
5182.8 ^{&} 3	(20)	A	5771.5 ^f 3	22 ^{+g}	A D	6653.5 ^b 4	(25) ^c	A D
5199.08 ^h 24	(19)	A D	5863.2 ^{&} 4	(22)	A	7317.6 ^f 4	(26 ⁺) ^g	A

[†] From least-squares fit to E_γ.[‡] Assignments given without further comment are based on band structure deduced in (HI,xnγ) reactions. In many cases, the evaluator has added parentheses to the authors' suggested assignments.# From Doppler shift attenuation measurements in (³²S,4nγ), except as noted.@ Band(a): ν_{i13/2}⊗ν_{f7/2}, α=1 band. See comment on signature partner band.& Band(A): ν_{i13/2}⊗ν_{f7/2}, α=0 band. Probable configuration: K^π=7⁻, 7/2[633]+7/2[514]. No signature splitting; similar to bands in ¹⁸⁰Os and ¹⁸²Pt. Band crossing at ħω≈0.27 MeV. Assignment supported by observed B(M1)/B(E2) ratios for intraband transitions.^a Band(B): band based on J=10, 2967 level.^b Band(C): Band based on J=5, 1848 level. Becomes yrast for J>19; band crossing at ħω≈0.32 MeV. Possible configuration: (ν 1/2[651]) coupled to (ν 7/2[514]) and/or (ν 1/2[770]) (1995De30). Second-strongest band populated in ¹⁵⁶Gd(³²S,4nγ) at 160 MeV.^c Definite J assigned to J≤23 members of band with bandhead at 1848 keV based on smooth progression of level energies, independently-established J=7 for 2121 level and stretched Q multipolarity for 274γ (J=7 to 5 transition).^d Band(D): K^π=0⁺ ground state band. Oblate band.^e Definite J^π assigned to J≤10 g.s. band members based on smooth progression of level energies and independently-established J^π=0⁺ for g.s. and E2 multipolarity for 367γ (J=2 to 0 transition).^f Band(E): K^π=0⁺ band. Prolate band; properties similar to yrast band in ¹⁸⁶Hg. Alignment gain of 4ħ at crossing frequency of 0.34 MeV.^g Definite J^π assigned to J≤24 members of 0⁺ band with bandhead at 375 keV based on smooth progression of level energies and independently-established J^π=0⁺ for 375 level and E2 multipolarity for 287γ (J=4 to 2 transition).^h Band(F): Band based on J=(5), 1413 level. Feeding to prolate band; alignment pattern similar to that of yrast band; crossing frequency ħω≈0.32 MeV. π=+ likely, analogous to similar band in ¹⁸⁶Hg. Band may arise from collective Q excitation built on excited prolate deformed shape (1995De30).ⁱ Band(G): Band based on J=(6), 2063 level. Feeding to prolate band; band crossings at ħω≈0.23 and 0.30 MeV. Band may arise from collective Q excitation built on excited prolate deformed shape (1995De30).^j Band(H): band based on J=15, 3796 level. $\gamma(^{184}\text{Hg})$

E _i (level)	J ^π _i	E _γ [†]	I _γ [†]	E _f	J ^π _f	Mult. [†]	α ^{&}	Comments
366.78	2 ⁺	366.8 1	100	0.0	0 ⁺	E2 [#]	0.0599	B(E2)(W.u.)=62 15
375.14	0 ⁺	375.1 3		0.0	0 ⁺	E0		Mult.: from observation of ce but no photons in ε decay.
534.42	2 ⁺	159.3 [@] 2 167.6 2	<18 [@] 36 10	375.14 0 ⁺ 366.78 2 ⁺	[E2] E0+M1+E2		0.880 >1.80	Mult.: E0 component inferred from large α(K) _{exp} from ε decay.
		534.4 1	100 29	0.0 0 ⁺	(E2)		0.0230	Mult.: Q from ¹⁵⁶ Gd(³² S,4nγ): E=156,160 MeV; Δπ=no from level scheme.
653.77	4 ⁺	119.4 3 287.0 1	1.32 24 100.00 24	534.42 2 ⁺ 366.78 2 ⁺	[E2] E2 [#]		2.67 5 0.1216	B(E2)(W.u.)=1.9×10 ² 4 B(E2)(W.u.)=176 19

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Adopted Levels, Gammas (continued)

$\gamma(^{184}\text{Hg})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	$\alpha^\&$	Comments
983.51	(1,2 ⁺)	608.3 @ 3 616.8 @ 3	<100 @ <73 @	375.14 0 ⁺ 366.78 2 ⁺				
993.91	6 ⁺	340.1 1	100	653.77 4 ⁺		E2 [#]	0.0740	B(E2)(W.u.)=330 130
1086.56	4 ⁺	552.1 1 719.8 1	100 10 65 5	534.42 2 ⁺ 366.78 2 ⁺		(E2)	0.01180	Other E_γ : 554.1 3 from ε decay. I_γ : weighted average of 61 9 in ε decay and 67 6 in ($^{32}\text{S},4n\gamma$): E=156,160 MeV. Other E_γ : 722.2 3 from ε decay.
1299.53	(3,4 ⁺)	212.8 3 645.8 1 765.2	43 13 57 20 100 33	1086.56 4 ⁺ 653.77 4 ⁺ 534.42 2 ⁺		D		
1412.19	8 ⁺	418.3 1	100	993.91 6 ⁺		E2 [#]	0.0422	B(E2)(W.u.)=340 +190-140
1413.26	(5)	759.5 1	100	653.77 4 ⁺		D		
1549.18	6 ⁺	137.0 1 462.6 1 555.3 3	28 4 42 10 100 20	1412.19 8 ⁺ 1086.56 4 ⁺ 993.91 6 ⁺		(E2)	0.0326	
1653.58	(5,6 ⁺)	659.7 2 1000	100 18 45 9	993.91 6 ⁺ 653.77 4 ⁺				
1750.99	(6 ⁺)	98 451.5 2 757		1653.58 (5,6 ⁺) 1299.53 (3,4 ⁺) 993.91 6 ⁺				
1803.16	(7)	389.9 1 391.0 2	70.5 23 11.4 23	1413.26 (5) 1412.19 8 ⁺		(E2)	0.0508	
1817.14	(5,6 ⁺)	809.2 1 517.7 3 730.6 1	100 5 63 25 100 44	993.91 6 ⁺ 1299.53 (3,4 ⁺) 1086.56 4 ⁺		D		DCO is low for suggested $\Delta J=2$ character of transition in ($^{32}\text{S},4n\gamma$): E=156,160 MeV but compatible with J=5 for 1817 level.
1847.52	5	548.0 1 761 1193.8 2	100 15 38 5	1299.53 (3,4 ⁺) 1086.56 4 ⁺ 653.77 4 ⁺		D		E_γ : from ($^{32}\text{S},4n\gamma$): E=163 MeV only.
1872.68	(7)	122 219.1 1 878.7 2	100 17 55.0 17 23 7	1750.99 (6 ⁺) 1653.58 (5,6 ⁺) 993.91 6 ⁺				
1901.41	10 ⁺	489.2 1	100	1412.19 8 ⁺		E2 [#]	0.0284	B(E2)(W.u.)=390 +120-80
2007.28	(8)	134.6 1 256.3 1	100 5 13.7 20	1872.68 (7) 1750.99 (6 ⁺)		(M1+E2)	2.5 9	
2056.58	8 ⁺	507.4 1	100	1549.18 6 ⁺		(E2)	0.0260	
2063.47	(6)	650.2 1	100	1413.26 (5)		D		
2121.00	7	273.5 1 303.9 1 571.8 1 708.8 1 1126 1	5.3 11 71.0 22 100 7 83 4 6.6 22	1847.52 5 1817.14 (5,6 ⁺) 1549.18 6 ⁺ 1412.19 8 ⁺ 993.91 6 ⁺		(E2) D+Q D(+Q) D	0.1409	
2170.88	(9)	163.6 1 298.2 1	100 8 71 4	2007.28 (8) 1872.68 (7)				
2256.47	(9)	355.0 3 453.3 1 844.3 1	26.2 24 100.0 24 76 5	1901.41 10 ⁺ 1803.16 (7) 1412.19 8 ⁺		(E2) D	0.0343	
2362.18	(10)	191.3 1 354.9 1	100 6 69 3	2170.88 (9) 2007.28 (8)		(M1)	1.252	
2374.58	(8)	311.1 1 571.4 1	50 5 100 10	2063.47 (6) 1803.16 (7)		(E2) D+Q	0.0956	

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Adopted Levels, Gammas (continued)

$\gamma(^{184}\text{Hg})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	$\alpha^\&$	Comments
2374.58	(8)	962.5 2	55 5	1412.19	8 ⁺			
2450.09	9	329.1 1	100.0 17	2121.00	7	(E2)	0.0812	
		548.8 2	37.4 [‡] 17	1901.41	10 ⁺			
		1037.9 2	20.0 17	1412.19	8 ⁺	D		
2452.70	12 ⁺	551.3 1	100	1901.41	10 ⁺	E2 [#]	0.0214	B(E2)(W.u.)=370 +140–90
2579.08	(11)	216.9 1	43 6	2362.18	(10)			
		408.2 1	100 11	2170.88	(9)	(E2)	0.0449	
2612.08	10 ⁺	555.5 1	100	2056.58	8 ⁺			
2754.18	(10)	379.6 1	100.0 25	2374.58	(8)	(E2)	0.0546	
		497.7 1	55.0 25	2256.47	(9)	D		
		852.8 2	35 5	1901.41	10 ⁺			
2767.37	(11)	510.9 1	100.0 16	2256.47	(9)	(E2)	0.0256	
		865.9 2	25.0 16	1901.41	10 ⁺			
2810.68	(12)	231.6 1	36 4	2579.08	(11)	(M1+E2)	0.49 25	
		448.5 1	100 8	2362.18	(10)	(E2)	0.0353	
2850.35	11	397.7 3	2.8 7	2452.70	12 ⁺			
		400.3 1	100.0 14	2450.09	9	(E2)	0.0473	
		948.9 1	9.0 21	1901.41	10 ⁺	D		
2966.78	(10)	516.7 3	100 [‡]	2450.09	9			
3056.60	14 ⁺	603.9 1	100	2452.70	12 ⁺	E2 [#]	0.01733	B(E2)(W.u.)=350 +150–110
3065.98	(13)	255.3 1	55 18	2810.68	(12)			
		486.9 1	100 18	2579.08	(11)			
3184.57	(12)	417.2	37.2 23	2767.37	(11)	D		
		430.4 1	100.0 23	2754.18	(10)			
3295.55	13	445.2 1	100	2850.35	11	(E2)	0.0359	
3329.88	(13)	562.5 1	100 4	2767.37	(11)	(E2)	0.0204	
		877.2 2	36 4	2452.70	12 ⁺			
3331.18	(14)	265.2 2	21 7	3065.98	(13)	(M1)	0.506	
		520.5 1	100 36	2810.68	(12)	(E2)	0.0245	
3407.08	(12)	440.3 1	67 6	2966.78	(10)			
		556.7 3	100 [‡] 22	2850.35	11			
3619.78	(15)	288.6 2	25 13	3331.18	(14)			
		553.8 1	100 38	3065.98	(13)	(E2)	0.0211	
3635.17	(14)	305.1 6	37.2 23	3329.88	(13)	D		
		450.6 1	100.0 23	3184.57	(12)	(E2)	0.0348	
3702.60	16 ⁺	646.0 1	100	3056.60	14 ⁺	E2 [#]	0.01491	B(E2)(W.u.)=320 +180–110
3704.85	15	409.3 1	100	3295.55	13	(E2)	0.0446	
3795.75	(15)	500.2 1	100	3295.55	13	(E2)	0.0269	
3906.78	(14)	499.7 1	56 6	3407.08	(12)			
		611.2 2	100 6	3295.55	13			
3908.68	(16)	288.9 2	29 29	3619.78	(15)			
		577.5 1	100 57	3331.18	(14)	(E2)	0.0192	
3935.88	(15)	606.0 1	100	3329.88	(13)	(E2)	0.01719	
4125.47	(16)	490.3 1	100	3635.17	(14)	(E2)	0.0283	
4166.85	17	462.0 1	100	3704.85	15	(E2)	0.0327	
4228.08	(17)	319.4 2	33 33	3908.68	(16)			
		608.3 1	1.0×10 ² 10	3619.78	(15)			
4365.35	(17)	569.6 1	100	3795.75	(15)			
4377.10	18 ⁺	674.5 1	100	3702.60	16 ⁺	E2 [#]	0.01357	B(E2)(W.u.)=340 40
4463.48	(16)	556.7 1	100 [‡] 27	3906.78	(14)			
		759	55 9	3704.85	15			
4530.19	(18)	302.1 2		4228.08	(17)			
		621.5 1	1.0×10 ² 10	3908.68	(16)			
4564.88	(17)	629.0 1	100	3935.88	(15)	(E2)	0.01582	

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Adopted Levels, Gammas (continued)

$\gamma(^{184}\text{Hg})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	$\alpha^\&$	Comments
4672.87	(18)	547.4 1	100	4125.47	(16)	(E2)	0.0217	
4699.75	19	532.9 1	100	4166.85	17	(E2)	0.0231	
4862.2	(19)	634.1 2	100	4228.08	(17)			
4958.26	(19)	592.9 1	100	4365.35	(17)	(E2)	0.0181	
5064.5	20 ⁺	687.4 1	100	4377.10	18 ⁺	(E2)	0.01302	
5070.6	(18)	607.1 1	100 8	4463.48	(16)	(E2)	0.01712	
		904	33 8	4166.85	17			
5182.8	(20)	652.6 1	100	4530.19	(18)			
5199.08	(19)	634.2 1	100	4564.88	(17)			Mult.: DCO much too low for $\Delta J=2$ implied by level scheme in ($^{32}\text{S}, 4n\gamma$): E=156,160 MeV.
5262.8	(20)	589.9 1	100	4672.87	(18)	(E2)	0.0183	
5297.7	21	598.0 1	100	4699.75	19	(E2)	0.01772	
5598.3?	(21)	640 ^a	100	4958.26	(19)			
5699.8	(20)	629.2 1	100	5070.6	(18)			
5771.5	22 ⁺	707.0 1	100	5064.5	20 ⁺			
5863.2	(22)	680.4 2	100	5182.8	(20)			
5877.5	(21)	678.4 2	100	5199.08	(19)			
5881.1	(22)	618.3 1	100	5262.8	(20)			
5951.8	23	654.1 1	100	5297.7	21			Mult.: DCO is low for $\Delta J=2$ placement in ($^{34}\text{S}, 4n\gamma$): E=156,160 MeV.
6515.5	24 ⁺	744.0 1	100	5771.5	22 ⁺	(E2)	0.01100	
6653.5	(25)	701.7 2	100	5951.8	23			
7317.6?	(26 ⁺)	802.1 ^a 2	100	6515.5	24 ⁺			

[†] From $^{156}\text{Gd}(^{32}\text{S}, 4n\gamma)$: E=156,160 MeV, except as noted. Multipolarity assignments are based on DCO data, except as noted, with intraband transitions assigned $\Delta\pi=(\text{no})$.

[‡] Complex line in ($^{32}\text{S}, 4n\gamma$): E=156,160 MeV; intensity estimated by authors from coincidence spectra.

Stretched Q from DCO ratio in ($^{32}\text{S}, 4n\gamma$): E=156,160 MeV; not M2 from RUL.

@ From ^{184}Tl ε decay.

& Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

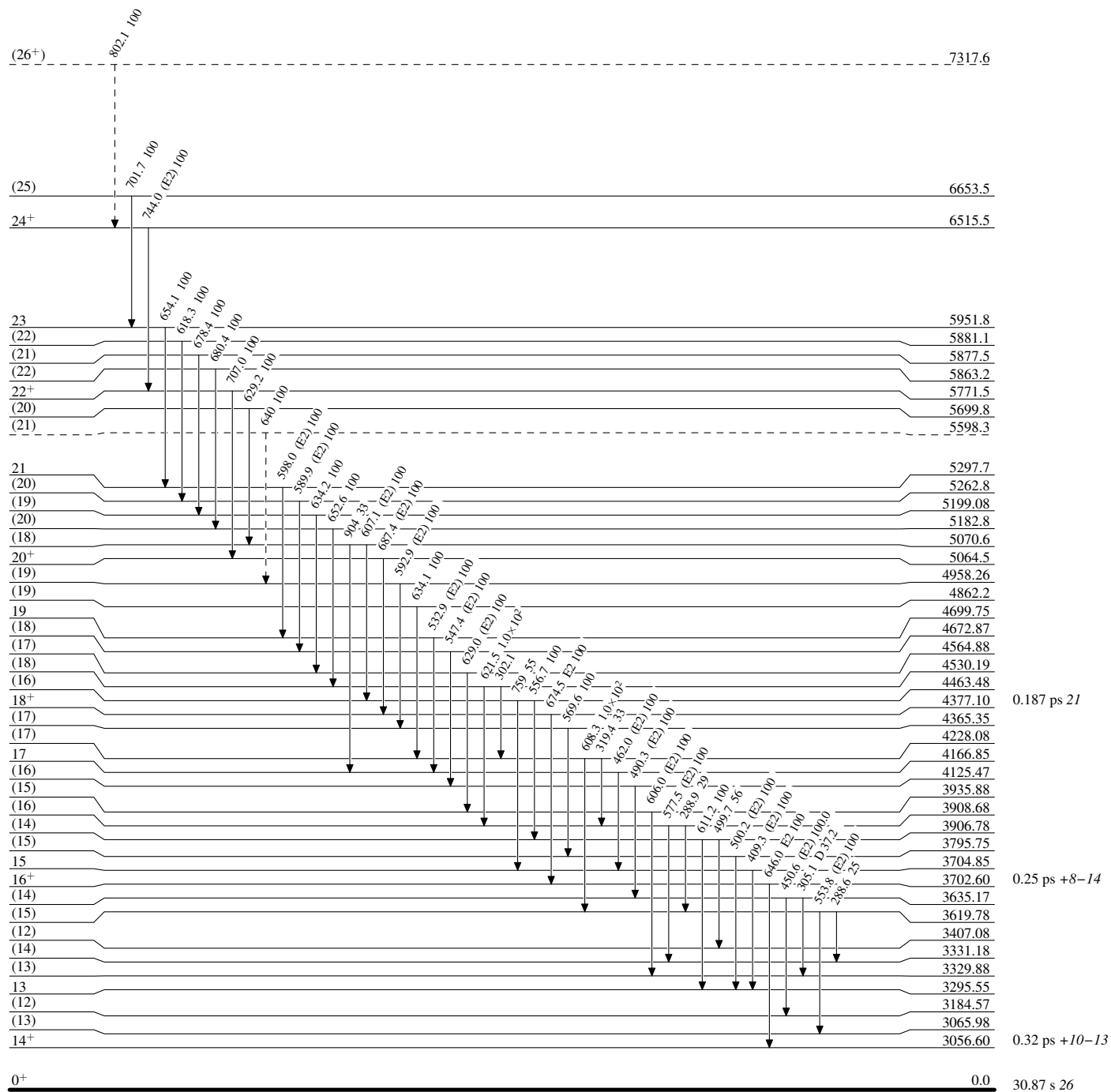
^a Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

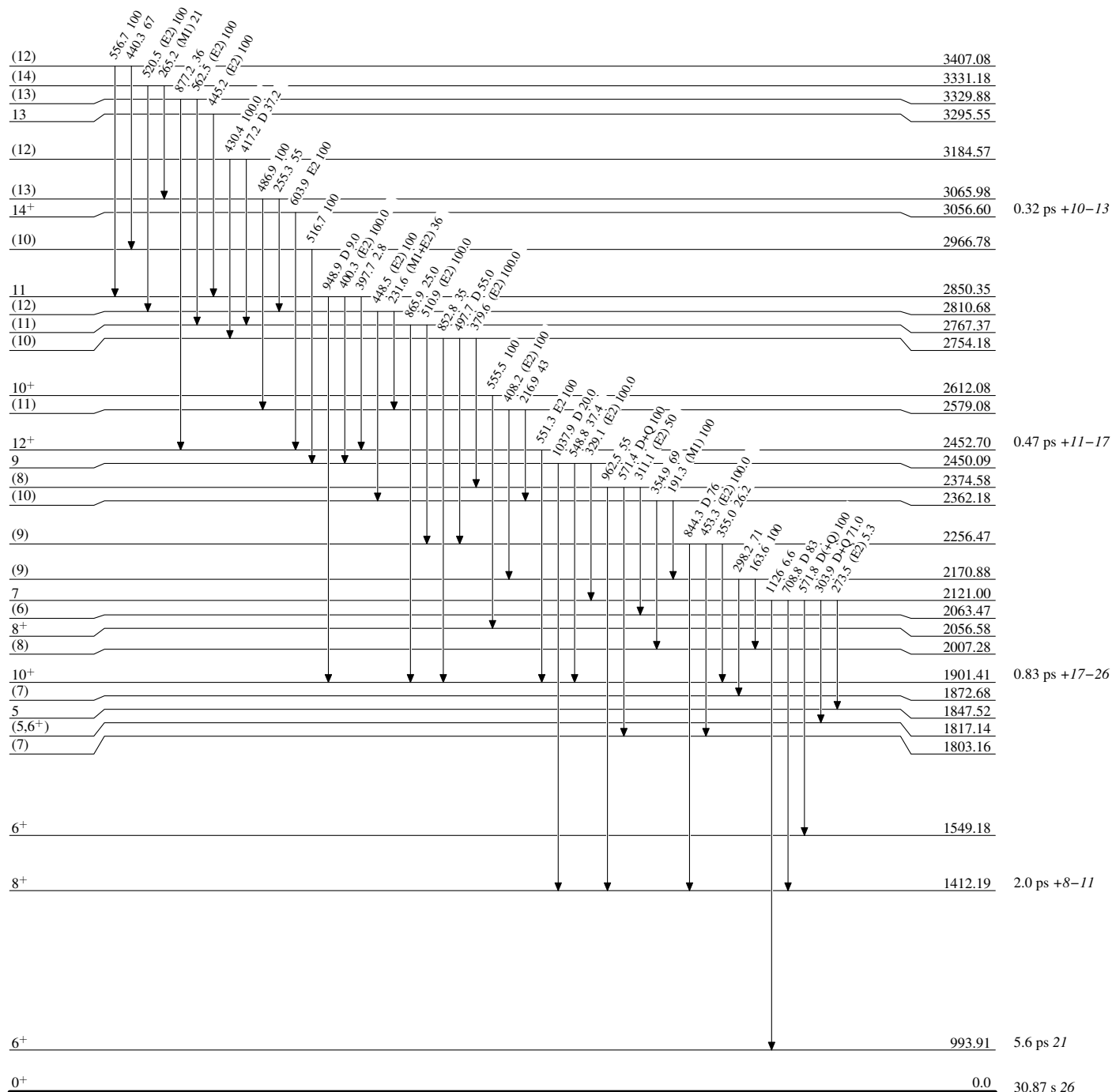
Level Scheme

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)

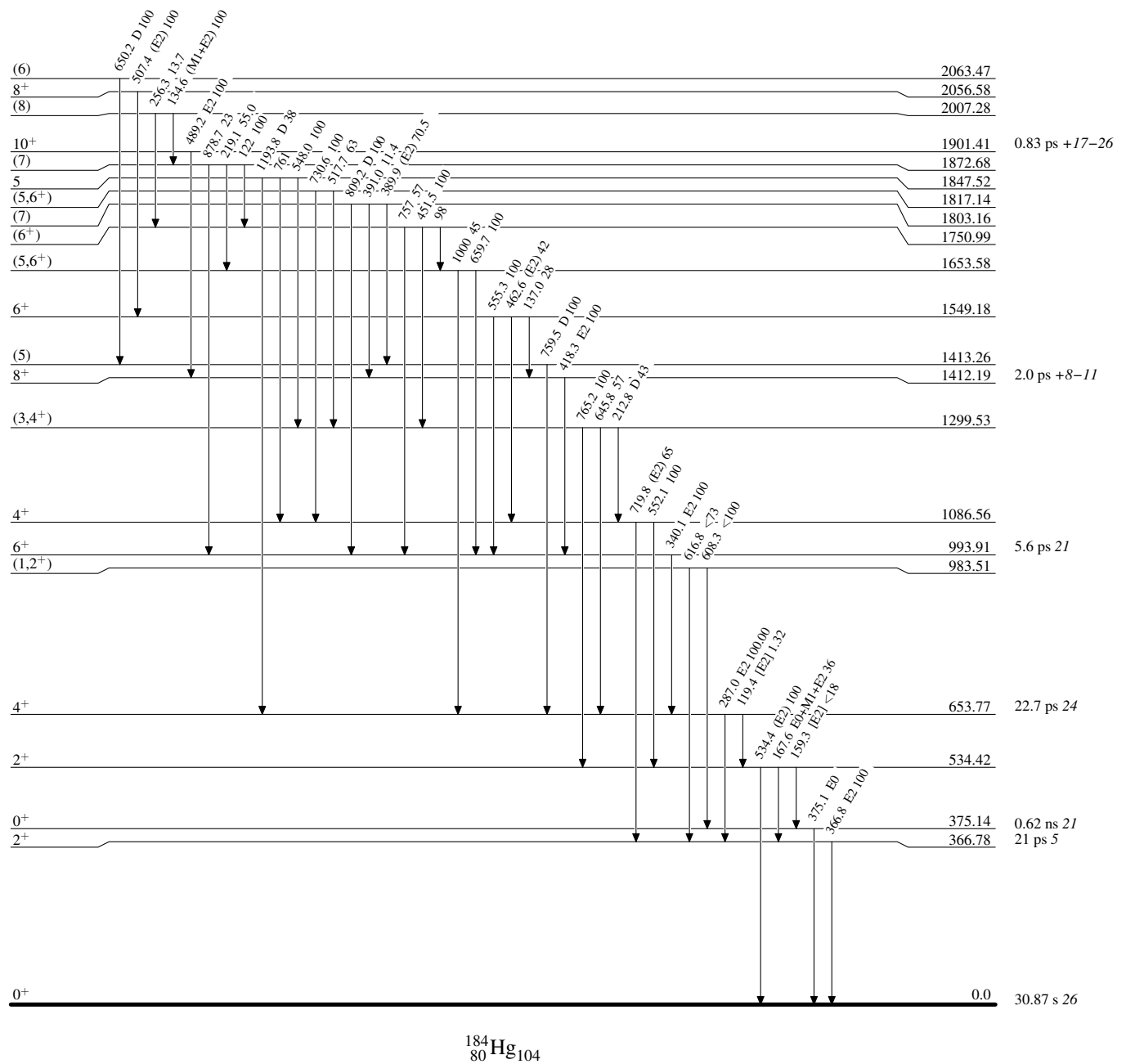
Adopted Levels, Gammas**Level Scheme (continued)**

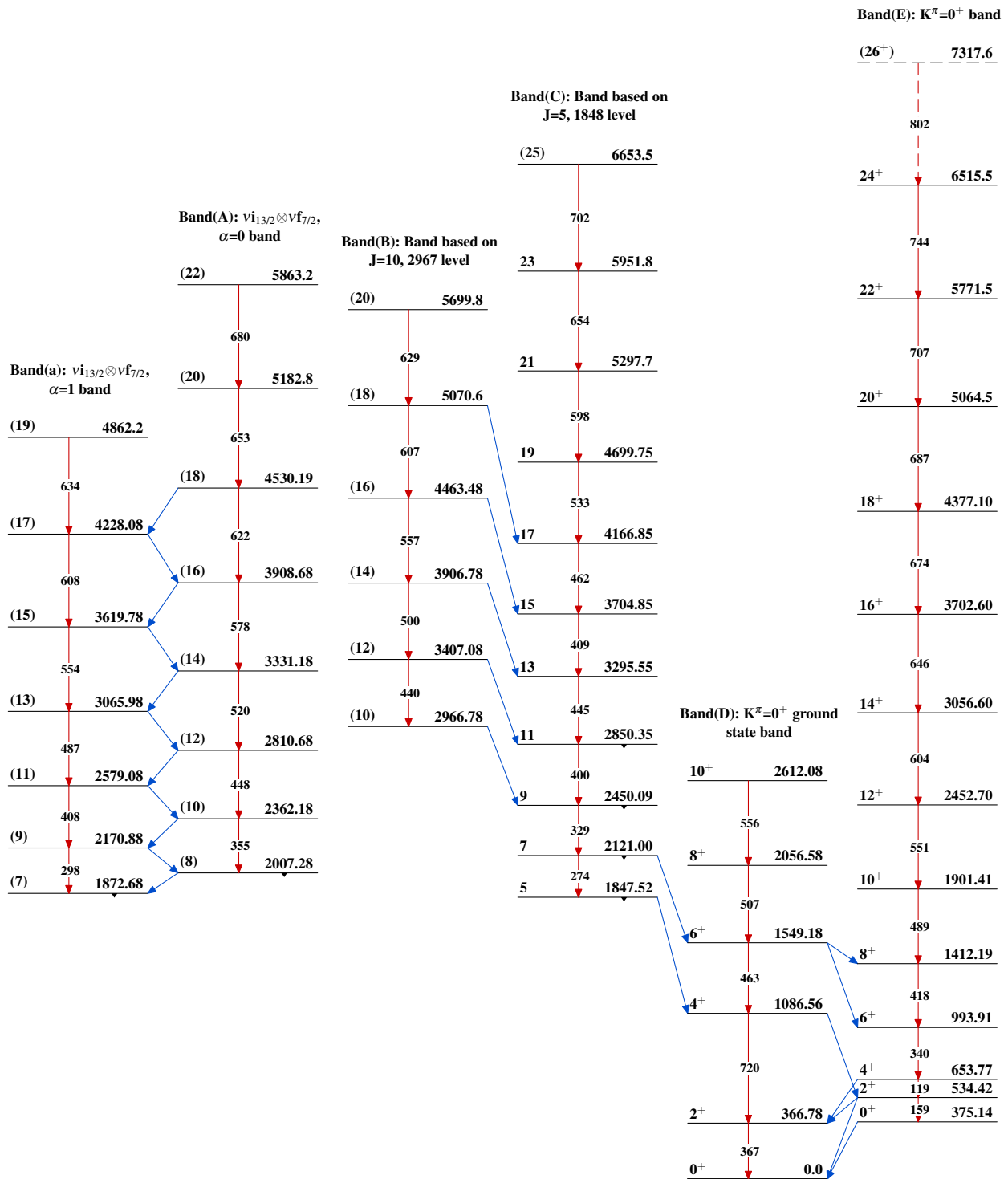
Intensities: Relative photon branching from each level

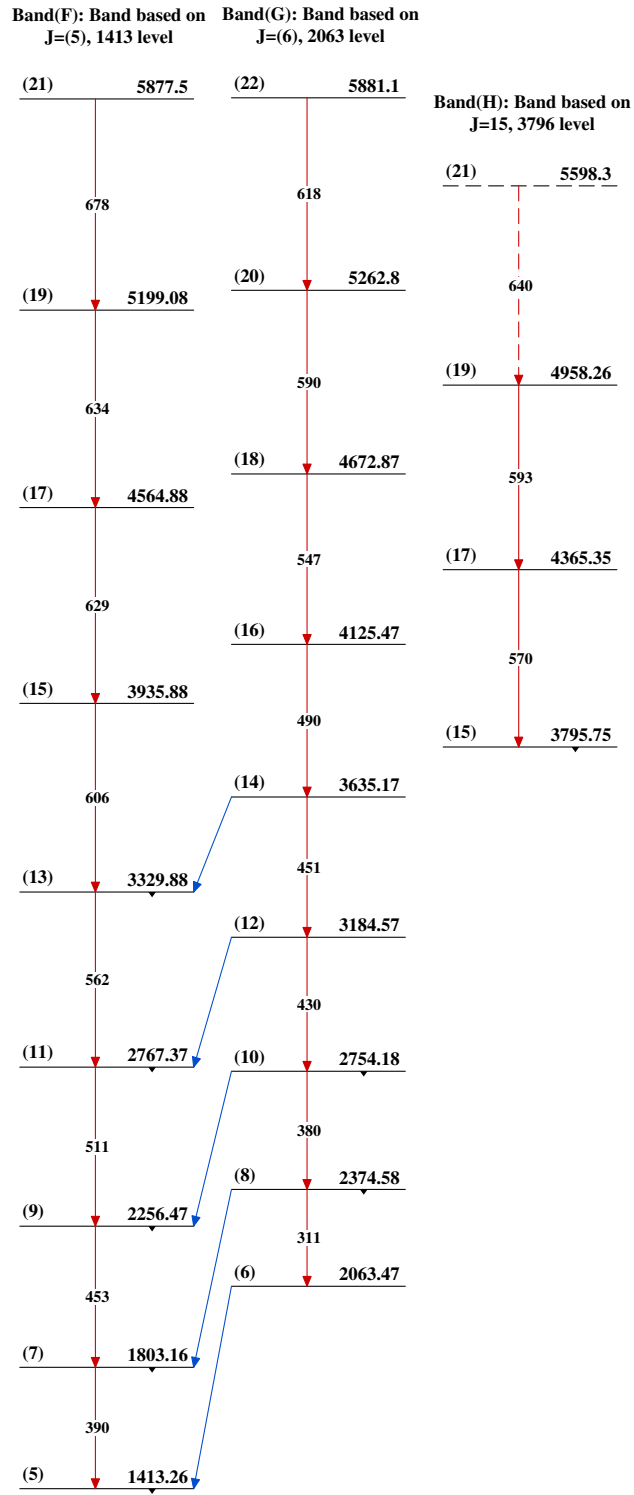


Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level



Adopted Levels, Gammas

Adopted Levels, Gammas (continued) $^{184}_{80}\text{Hg}_{104}$