

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Juutinen, D. J. Hartley		NDS 150, 1 (2018)	1-Feb-2018

$Q(\beta^-)=-7865$ 32; $S(n)=10155$ 19; $S(p)=4463$ 26; $Q(\alpha)=4707$ 16 [2017Wa10](#)

[Additional information 1.](#)

 ^{188}Hg LevelsCross Reference (XREF) Flags

A	^{188}Tl ε decay	D	$^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$
B	^{192}Pb α decay (3.5 min)	E	$^{168}\text{Er}(^{24}\text{Mg},4n\gamma)$
C	$^{156}\text{Gd}(^{36}\text{S},4n\gamma)$	F	Coulomb excitation

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
0.0 [#]	0 ⁺	3.25 min 15	ABCDEF	$\% \varepsilon + \% \beta^+ = 99.999963$ 8; $\% \alpha = 3.7 \times 10^{-5}$ 8 $\% \alpha$: from 1979Ha10 . Other: 4.2×10^{-5} , preliminary value from 1993ToZY . T _{1/2} : from $190.2\beta\gamma(t)$ in 1972Fi12 . Others: 3.7 min (1960Po07) and 3.17 min (1978CoYZ). $\Delta \langle r^2 \rangle(^{188}\text{Hg}, ^{198}\text{Hg}) = -0.3944$ fm ² 10 (1986UI02) and $\Delta \langle r^2 \rangle(^{188}\text{Hg}, ^{204}\text{Hg}) = -0.80$ fm ² 9 (1977Ku11).
412.91 [#] 8	2 ⁺	13.1 ps 20	A CDEF	J ^π : 412.9γ E2 to 0 ⁺ . B(E2, 0 ⁺ to 2 ⁺) [†] = 1.72 26 from E2 matrix element (0, 0 ⁺ to 413, 2 ⁺) = +1.31 10 (2014Br05). T _{1/2} : From B(E2, 0 ⁺ to 2 ⁺) [†] . J ^π : 824.5 E0 transition to 0 ⁺ . T _{1/2} : from $\beta\gamma\gamma(t)$ in ^{188}Tl ε decay (1994Jo13).
824.50 ^e 20	0 ⁺	204 ps 45	A C	J ^π : 881.1γ E2 to 0 ⁺ . T _{1/2} : from $\beta\gamma\gamma(t)$ in ^{188}Tl ε decay (1994Jo13).
881.10 ^e 8	2 ⁺	141 ps 31	A CDE	J ^π : 881.1γ E2 to 0 ⁺ . T _{1/2} : from $\beta\gamma\gamma(t)$ in ^{188}Tl ε decay (1994Jo13).
1004.89 [#] 10	4 ⁺	1.60 ps 13	A CDEF	B(E2, 2 ⁺ to 4 ⁺) [†] = 0.86 7 from E2 matrix element (413, 2 ⁺ to 1005, 4 ⁺) = +2.07 8 (2014Br05). T _{1/2} : From B(E2, 2 ⁺ to 4 ⁺) [†] . J ^π : 592.0γ E2 to 2 ⁺ . J ^π : 795.2γ E2 to 2 ⁺ , 203.2γ M1(+E2) to 4 ⁺ . J ^π : 826.7γ (E2) to 2 ⁺ ; 269.4γ from 6 ⁺ . J ^π : 574.0γ M1+E2 to 2 ⁺ , 247.6 E2+M1 to 4 ⁺ . J ^π : 504.3γ E2 to 4 ⁺ . J ^π : 837.8γ E1 to 2 ⁺ . J ^π : 769.8γ M1(+E2) to 4 ⁺ . J ^π : 772.4γ E2 to 4 ⁺ . J ^π : 381.5γ to 6 ⁺ , 1477.5γ to 2 ⁺ . J ^π : 398.2γ to 6 ⁺ , 452.7γ E2(+M1) to 3 ⁺ . J ^π : 904.8γ $\Delta J=1$, E1 to 4 ⁺ . J ^π : 460.7γ E2 to 6 ⁺ . J ^π : 622.0γ E1 to 3 ⁺ ; 167.3γ to 5 ⁻ . J ^π : 627.2γ E2+M1 to 6 ⁺ ; 928.5γ to 4 ⁺ . J ^π : 291.7γ E2 to 5 ⁻ ; 424.1γ E1 to 6 ⁺ . J ^π : 280.0γ to 8 ⁺ consistent with J from 6 to 10. Non-observation in HI,xny data sets would be consistent with non-yrast status and hence lowest spin.
1207.92 ^e 9	4 ⁺		A CDE	J ^π : 795.2γ E2 to 2 ⁺ , 203.2γ M1(+E2) to 4 ⁺ .
1239.64 10	(4) ⁺		A	J ^π : 826.7γ (E2) to 2 ⁺ ; 269.4γ from 6 ⁺ .
1455.19 9	3 ⁺		A	J ^π : 574.0γ M1+E2 to 2 ⁺ , 247.6 E2+M1 to 4 ⁺ .
1509.18 ^e 10	6 ⁺		A CDE	J ^π : 504.3γ E2 to 4 ⁺ .
1718.90? 13	(1,2,3) ⁻		A	J ^π : 837.8γ E1 to 2 ⁺ .
1774.67? 12	(3,4,5) ⁺		A	J ^π : 769.8γ M1(+E2) to 4 ⁺ .
1777.23 [#] 11	6 ⁺		A CDE	J ^π : 772.4γ E2 to 4 ⁺ .
1890.43? 12	4 ⁺		A	J ^π : 381.5γ to 6 ⁺ , 1477.5γ to 2 ⁺ .
1907.82 12	4 ⁺ , 5 ⁺		A	J ^π : 398.2γ to 6 ⁺ , 452.7γ E2(+M1) to 3 ⁺ .
1909.66 ^b 12	5 ⁻		A CDE	J ^π : 904.8γ $\Delta J=1$, E1 to 4 ⁺ .
1969.86 ^e 14	8 ⁺		A CDE	J ^π : 460.7γ E2 to 6 ⁺ .
2077.00? 19	(3,4) ⁻		A	J ^π : 622.0γ E1 to 3 ⁺ ; 167.3γ to 5 ⁻ .
2136.40 12	(5,6) ⁺		A	J ^π : 627.2γ E2+M1 to 6 ⁺ ; 928.5γ to 4 ⁺ .
2201.37 ^b 12	7 ⁻		A CDE	J ^π : 291.7γ E2 to 5 ⁻ ; 424.1γ E1 to 6 ⁺ .
2249.9? 5	(6) ⁺		A	J ^π : 280.0γ to 8 ⁺ consistent with J from 6 to 10. Non-observation in HI,xny data sets would be consistent with non-yrast status and hence lowest spin.
2274.2? 5			A	
2295.41 ^c 14	(6) ⁻		A CD	J ^π : 385.8γ E2+M1 to 5 ⁻ ; band assignment.

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Adopted Levels, Gammas (continued) ^{188}Hg Levels (continued)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
2350.89 [?] 15	(4,5,6) ⁺		A	J ^π : 443.1γ E2+M1 to 4 ⁺ ,5 ⁺ , 841.2γ to 6 ⁺ .
2422.50 [#] 13	8 ⁺		A CDE	J ^π : 645.6γ E2 to 6 ⁺ .
2448.98 ^c 15	(8 ⁻)		A CD	J ^π : 153.9γ E2 to (6) ⁻ , 247.3γ to 7 ⁻ .
2470.78 ^b 15	9 ⁻		A CDE	J ^π : 269.4γ E2 to 7 ⁻ .
2490.76 ^e 23	10 ⁺		A CDE	J ^π : 521.2γ E2 to 8 ⁺ ; band member.
2566.99 [?] 14			A	J ^π : 789.8γ and 1057.8γ to 6 ⁺ suggest J=4 to 8.
2662.35 [#] 22	10 ⁺		CDE	J ^π : 171.6 E2+M1 to 10 ⁺ , 239.7γ and 692.6γ to 8 ⁺ ; probable band member.
2680.9 [?] 5	(6 ⁺ ,7,8 ⁺)		A	J ^π : 711.0γ to 8 ⁺ and 1170.5γ to 6 ⁺ .
2724.1 [@] 4	12 ⁺	154 ns 20	CDE	μ=-2.02 12 (1983Se20) Q=0.91 11 (1984Dr09,2016St14) J ^π : 61.6γ to 10 ⁺ ; μ; systematics of similar isomers in the region. T _{1/2} : Unweighted average of 134 ns 15 (1983Ha15) and 173 ns 35 (2004G104). μ,Q: μ is from g=-0.168 10 in 1983Se20. Both μ and Q were deduced using the TDPAD technique. configuration: ν(i _{13/2}) ⁻² .
2784.16 ^c 24	(10 ⁻)		CD	J ^π : 313.3γ (M1) to 9 ⁻ , 335.3γ (E2) to (8 ⁻).
2946.90 25	10 ⁺		CD	J ^π : 456.2γ (E2+M1) to 10 ⁺ ; 524.3γ E2 to 8 ⁺ .
2967.9 ^d 4	(11 ⁻)		CD	J ^π : 183.8γ (E2+M1) to 10 ⁻ , 305.3γ to 10 ⁺ ; band assignment.
3011.4 ^b 3	11 ⁻		CDE	J ^π : 540.6γ E2 to 9 ⁻ .
3069.4 ^e 4	12 ⁺		CDE	J ^π : 578.6γ E2 to 10 ⁺ ; band member.
3113.6 4	(12 ⁺)		C	J ^π : 451.3γ 10 ⁺ .
3161.5 [@] 4	14 ⁺		CDE	J ^π : 437.4γ E2 to 12 ⁺ ; band member.
3219.1 ^f 3	(11 ⁻)		CD	J ^π : 272.2γ (E1) to 10 ⁺ .
3250.0 ^c 4	(12 ⁻)		CD	J ^π : 465.8γ E2 to (10 ⁻).
3447.1 ^d 4	(13 ⁻)		CD	J ^π : 479.2γ E2 to (11 ⁻).
3682.0 ^b 4	13 ⁻		CDE	J ^π : 670.6γ E2 to 11 ⁻ .
3687.8 ^f 5	(13 ⁻)		CD	J ^π : 468.7γ to (11 ⁻); band member.
3689.5 ^e 5	14 ⁺		CDE	J ^π : 620.1γ E2 to 12 ⁺ ; band member.
3804.3 5	(14 ⁺)		C	J ^π : 690.7γ to 12 ⁺ .
3821.3 [@] 4	16 ⁺		CDE	J ^π : 659.8γ E2 to 14 ⁺ ; band member.
3931.7 ^c 5	(14 ⁻)		CD	J ^π : 681.7γ to (12 ⁻); band member.
4126.7 ^d 4	(15 ⁻)		CD	J ^π : 679.6γ E2 to (13 ⁻).
4160.2 ^f 6	(15 ⁻)		C	J ^π : 472.4γ E2 to (13 ⁻); band member.
4255.6 6	(16 ⁺)		C	J ^π : 451.3γ to 14 ⁺ .
4256.9 ^b 4	15 ⁻		CD	J ^π : 547.9γ E2 to 13 ⁻ .
4329.6 ^e 6	16 ⁺		CDE	J ^π : 640.1γ E2 to 14 ⁺ ; band member.
4502.9 ^a 5	(16)		CD	J ^π : 681.6γ, ΔJ=0 transition to 16 ⁺ .
4554.2 ^b 4	17 ⁻		CDE	J ^π : 297.3γ E2 to 15 ⁻ ; 732.8γ (E1) to 16 ⁺ .
4581.8 [@] 5	18 ⁺		CDE	J ^π : 760.5γ E2 to 16 ⁺ ; band member.
4628.2 ^f 6	(17 ⁻)		CD	J ^π : 468.0γ to (15 ⁻); band member.
4841.1 ^d 5	(17 ⁻)		C	J ^π : 714.4γ to (15 ⁻); band member.
4850.5 ^a 6	(18)		CD	J ^π : 347.6γ E2 to (16).
4949.9 ^b 5	19 ⁻		CD	J ^π : 395.7γ E2 to 17 ⁻ .
4988.6 ^e 7	18 ⁺		CD	J ^π : 659.0γ E2 to 16 ⁺ ; band member.
5150.5 ^f 7	(19 ⁻)		CD	J ^π : 522.3γ E2 to (17 ⁻); band member.
5306.3 ^{&} 6	20 ⁺		CDE	J ^π : 724.5γ E2 to 18 ⁺ .
5397.4 ^a 7	(20)		CD	J ^π : 546.9γ E2 to (18).
5469.0 [@] 6	20 ⁺		CD	J ^π : 887.2γ E2 to 18 ⁺ ; band member.
5582.7 6	21 ⁻		CD	J ^π : 632.8γ E2 to 19 ⁻ .

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Adopted Levels, Gammas (continued)

^{188}Hg Levels (continued)

E(level) [†]	J ^π [‡]	XREF	Comments
5602.1 ^d 6	(19 ⁻)	C	J ^π : 761.0γ to 17 ⁻ ; probable band member.
5605.3 ^b 6	21 ⁻	CD	J ^π : 655.4γ E2 to 19 ⁻ .
5684.3 ^e 7	20 ⁺	CD	J ^π : 695.7γ E2 to 18 ⁺ ; band member.
5706.6 7	(20 ⁺)	C	J ^π : 718.0γ to (18 ⁺).
5742.5 ^f 8	(21 ⁻)	C	J ^π : 592.0γ to (19 ⁻); band member.
5916.8 ^{&} 7	22 ⁺	CD	J ^π : 610.5γ E2 to 20 ⁺ .
6162.0 ^b 6	(23 ⁻)	C	J ^π : 556.7γ to 21 ⁻ ; band member.
6243.0 [@] 6	(22 ⁺)	C	J ^π : 936.7γ E2 to 20 ⁺ .
6386.3 7	(23 ⁻)	C	J ^π : 803.6γ to 21 ⁻ .
6402.9 9	(22 ⁺)	D	J ^π : 718.6γ E2 to 20 ⁺ .
6405.7 ^f 8	(23 ⁻)	C	J ^π : 663.2γ E2 to (21 ⁻); band member.
6408.1 ^e 8	22 ⁺	C	J ^π : 723.8γ E2 to 20 ⁺ ; band member.
6717.8 ^{&} 7	(24 ⁺)	C	J ^π : 801.0γ to 22 ⁺ ; band member.
6831.5 [@] 7	(24 ⁺)	C	J ^π : 588.5γ to 22 ⁺ .
6953.0 ^b 7	(25 ⁻)	C	J ^π : 791.0γ to (23 ⁻); band member.
7138.9 ^f 9	(25 ⁻)	C	J ^π : 733.2γ to (23 ⁻); band member.
7314.9 ^{?&} 15	(26 ⁺)	C	J ^π : 597γ to (24 ⁺); probable band member.
7852.8 ^b 7	(27 ⁻)	C	J ^π : 899.8γ to (25 ⁻); band member.
7941.1 ^f 9	(27 ⁻)	C	J ^π : 802.2γ to (25 ⁻); band member.

[†] From a least-squares fit to Eγ's.

[‡] From deduced γ-ray transition multipolarities and the apparent band structures.

Band(A): g.s. band.

@ Band(B): band 2 (α=0).

& Band(C): band 3 (α=0).

^a Band(D): band 4 (α=0).

^b Band(E): band 5 (α=1).

^c Band(F): band 6 (α=0).

^d Band(G): band 7 (α=1).

^e Band(H): band 8 (α=0). K^π=0⁺ (prolate) band.

^f Band(I): band 9 (α=1).

γ(^{188}Hg)

E _i (level)	J _i ^π	E _γ [†]	I _γ [†]	E _f	J _f ^π	Mult.#	α [@]	Comments
412.91	2 ⁺	412.9 1	100	0.0	0 ⁺	E2	0.0436	α(K)=0.0298 5; α(L)=0.01046 15; α(M)=0.00260 4 α(N)=0.000649 9; α(O)=0.0001142 16; α(P)=3.92×10 ⁻⁶ 6 B(E2)(W.u.)=54 9 Mult.: α(K)exp=0.030 7 (1976Bo04), 0.031 3 (1984Co17); α(L)exp=0.009 2 (1984Co17). Others: A ₂ =0.31 5, A ₄ =-0.04 4, pol=0.46 7 in ¹⁶⁴ Dy(²⁸ Si,4nγ) (1988Ha15).
824.50	0 ⁺	824.5 2		0.0	0 ⁺	E0		E _γ : from ce data in ¹⁸⁸ Tl ε decay (1984Co17). Mult.: from α(K)exp>1.3 1 (1984Co17), >1.3 and α(L)exp>0.22 (1976Bo04).
881.10	2 ⁺	468.2 1	66 3	412.91	2 ⁺	M1+E2	0.1091	ρ ² (E0)=0.0077 +22-32 (1994Jo13,1999Wo07). α(K)=0.0898 13; α(L)=0.01481 21; α(M)=0.00344 5

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Adopted Levels, Gammas (continued) $\gamma(^{188}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha^@$	Comments
								$\alpha(\text{N})=0.000862$ 12; $\alpha(\text{O})=0.0001632$ 23; $\alpha(\text{P})=1.257\times 10^{-5}$ 18 Mult.: $\alpha(\text{K})\text{exp}=0.085$ 21 (1976Bo04), 0.087 5 (1984Co17); $\alpha(\text{L})\text{exp}=0.013$ 4 (1984Co17). Others: DCO=1.30 15 in $^{156}\text{Gd}(^{36}\text{S},4\text{n}\gamma)$ (1993BeZJ).
881.10	2 ⁺	881.1 1	100 13	0.0	0 ⁺	E2	0.00776	$\alpha(\text{K})=0.00617$ 9; $\alpha(\text{L})=0.001219$ 17; $\alpha(\text{M})=0.000289$ 4 $\alpha(\text{N})=7.23\times 10^{-5}$ 11; $\alpha(\text{O})=1.331\times 10^{-5}$ 19; $\alpha(\text{P})=8.13\times 10^{-7}$ 12 B(E2)(W.u.)=0.068 19 Mult.: $\alpha(\text{K})\text{exp}=0.0061$ 15 (1976Bo04), 0.0065 7 (1984Co17). Others: $A_2=0.2$ 1, $\text{pol}=0.4$ 2 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15).
1004.89	4 ⁺	592.1 1	100	412.91	2 ⁺	E2	0.0181	$\alpha(\text{K})=0.01361$ 19; $\alpha(\text{L})=0.00343$ 5; $\alpha(\text{M})=0.000833$ 12 $\alpha(\text{N})=0.000208$ 3; $\alpha(\text{O})=3.75\times 10^{-5}$ 6; $\alpha(\text{P})=1.81\times 10^{-6}$ 3 B(E2)(W.u.)=75 6 Mult.: $A_2=0.29$ 6, $A_4=-0.06$ 10, $\text{pol}=0.4$ 1 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15). Other: DCO=1.15 3 in $^{156}\text{Gd}(^{36}\text{S},4\text{n}\gamma)$ (1993BeZJ).
1207.92	4 ⁺	203.2 2	11.5 9	1004.89	4 ⁺	M1(+E2)	1.057	$\alpha(\text{K})=0.867$ 13; $\alpha(\text{L})=0.1458$ 21; $\alpha(\text{M})=0.0339$ 5 $\alpha(\text{N})=0.00851$ 13; $\alpha(\text{O})=0.001611$ 23; $\alpha(\text{P})=0.0001233$ 18 Mult.: $\alpha(\text{K})\text{exp}=0.99$ 5 (1976Ha25), 0.99 11 (1984Co17).
		326.9 1	95 4	881.10	2 ⁺	E2	0.0828	$\alpha(\text{K})=0.0513$ 8; $\alpha(\text{L})=0.0237$ 4; $\alpha(\text{M})=0.00599$ 9 $\alpha(\text{N})=0.001492$ 21; $\alpha(\text{O})=0.000259$ 4; $\alpha(\text{P})=6.66\times 10^{-6}$ 10 Mult.: $\alpha(\text{K})\text{exp}=0.049$ 7 (1976Bo04), 0.040 4 (1984Co17). Others: $A_2=0.33$ 13, $\text{pol}=0.43$ 15 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15).
		795.2 1	100 5	412.91	2 ⁺	E2	0.00957	$\alpha(\text{K})=0.00752$ 11; $\alpha(\text{L})=0.001565$ 22; $\alpha(\text{M})=0.000373$ 6 $\alpha(\text{N})=9.33\times 10^{-5}$ 13; $\alpha(\text{O})=1.710\times 10^{-5}$ 24; $\alpha(\text{P})=9.94\times 10^{-7}$ 14 Mult.: $\alpha(\text{K})\text{exp}=0.0073$ 8 (1984Co17), 0.0078 12, $\alpha(\text{L})\text{exp}=0.0020$ 3, and $\text{K/L}=3.9$ 8 (1976Bo04). Others: $A_2=0.27$ 15 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15).
1239.64	(4) ⁺	826.7 1	100	412.91	2 ⁺	(E2)	0.00884	$\alpha(\text{K})=0.00697$ 10; $\alpha(\text{L})=0.001422$ 20; $\alpha(\text{M})=0.000339$ 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 Mult.: $\alpha(\text{K})\text{exp}=0.018$ 5 (1984Co17) consistent with both M1 and E2, but the latter agrees with the decay scheme.
1455.19	3 ⁺	215.7 1	13 2	1239.64	(4) ⁺			
		247.6 1	42 2	1207.92	4 ⁺	E2+M1	0.611	$\alpha(\text{K})=0.501$ 7; $\alpha(\text{L})=0.0840$ 12; $\alpha(\text{M})=0.0195$ 3 $\alpha(\text{N})=0.00490$ 7; $\alpha(\text{O})=0.000927$ 13; $\alpha(\text{P})=7.10\times 10^{-5}$ 10 Mult.: From $\alpha(\text{K})\text{exp}=0.13$ 2 (1984Co17); other $\alpha(\text{K})\text{exp}=0.33$ 8 (1976Bo04).
		450.3 1	11 1	1004.89	4 ⁺	M1+E2	0.1210	$\alpha(\text{K})=0.0996$ 14; $\alpha(\text{L})=0.01644$ 23; $\alpha(\text{M})=0.00382$

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Adopted Levels, Gammas (continued) $\gamma(^{188}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha^@$	Comments
1455.19	3 ⁺	574.0 <i>I</i>	100 7	881.10	2 ⁺	E2+M1	0.0638	6 $\alpha(\text{N})=0.000957$ 14; $\alpha(\text{O})=0.000181$ 3; $\alpha(\text{P})=1.394\times 10^{-5}$ 20 Mult.: $\alpha(\text{K})_{\text{exp}}=0.068$ 14 (1984Co17). $\alpha(\text{K})=0.0526$ 8; $\alpha(\text{L})=0.00862$ 12; $\alpha(\text{M})=0.00200$ 3 $\alpha(\text{N})=0.000501$ 7; $\alpha(\text{O})=9.50\times 10^{-5}$ 14; $\alpha(\text{P})=7.33\times 10^{-6}$ 11 Mult.: $\alpha(\text{K})_{\text{exp}}=0.024$ 4 (1984Co17), 0.022 5 (1976Bo04).
		1042.0 <i>I</i>	78 4	412.91	2 ⁺	E2+M1	0.01373	$\alpha(\text{K})=0.01135$ 16; $\alpha(\text{L})=0.00183$ 3; $\alpha(\text{M})=0.000423$ 6 $\alpha(\text{N})=0.0001060$ 15; $\alpha(\text{O})=2.01\times 10^{-5}$ 3; $\alpha(\text{P})=1.564\times 10^{-6}$ 22 Mult.: $\alpha(\text{K})_{\text{exp}}=0.0047$ 24 (1984Co17).
1509.18	6 ⁺	269.4 <i>I</i> 301.2 <i>I</i>	5.3 4 20.8 11	1239.64 (4) ⁺ 1207.92 4 ⁺		E2	0.1052	E_γ : Probably a doublet in ^{188}Tl ε decay. $\alpha(\text{K})=0.0625$ 9; $\alpha(\text{L})=0.0322$ 5; $\alpha(\text{M})=0.00816$ 12 $\alpha(\text{N})=0.00203$ 3; $\alpha(\text{O})=0.000350$ 5; $\alpha(\text{P})=8.04\times 10^{-6}$ 12 Mult.: $\alpha(\text{K})_{\text{exp}}=0.071$ 18 (1976Bo04), 0.083 15 (1984Co17). Other: $A_2=0.26$ 6, pol=0.42 12 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
		504.3 <i>I</i>	100 6	1004.89	4 ⁺	E2	0.0264	$\alpha(\text{K})=0.0191$ 3; $\alpha(\text{L})=0.00551$ 8; $\alpha(\text{M})=0.001353$ 19 $\alpha(\text{N})=0.000337$ 5; $\alpha(\text{O})=6.02\times 10^{-5}$ 9; $\alpha(\text{P})=2.54\times 10^{-6}$ 4 Mult.: $\alpha(\text{K})_{\text{exp}}=0.017$ 3 (1976Bo04), 0.019 2 (1984Co17), $\alpha(\text{L})_{\text{exp}}=0.0048$ 8 (1984Co17). Other: $A_2=0.30$ 6, $A_4=-0.1$ 1, pol=0.7 2 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
1718.90?	(1,2,3) ⁻	837.8 <i>I</i>	100 8	881.10	2 ⁺	E1	0.00319	$\alpha(\text{K})=0.00267$ 4; $\alpha(\text{L})=0.000403$ 6; $\alpha(\text{M})=9.26\times 10^{-5}$ 13 $\alpha(\text{N})=2.31\times 10^{-5}$ 4; $\alpha(\text{O})=4.34\times 10^{-6}$ 6; $\alpha(\text{P})=3.21\times 10^{-7}$ 5 Mult.: $\alpha(\text{K})_{\text{exp}}=0.0035$ 20 (1976Bo04).
1774.67?	(3,4,5) ⁺	1306.1 & 4 535.0 <i>I</i>	77 8 65 5	412.91 2 ⁺ 1239.64 (4) ⁺		M1	0.0767	$\alpha(\text{K})=0.0632$ 9; $\alpha(\text{L})=0.01038$ 15; $\alpha(\text{M})=0.00241$ 4 $\alpha(\text{N})=0.000604$ 9; $\alpha(\text{O})=0.0001144$ 16; $\alpha(\text{P})=8.82\times 10^{-6}$ 13 Mult.: $\alpha(\text{K})_{\text{exp}}=0.013$ 4 (1984Co17).
		769.8 <i>I</i>	100 10	1004.89	4 ⁺	M1(+E2)	0.0298	$\alpha(\text{K})=0.0246$ 4; $\alpha(\text{L})=0.00399$ 6; $\alpha(\text{M})=0.000925$ 13 $\alpha(\text{N})=0.000232$ 4; $\alpha(\text{O})=4.40\times 10^{-5}$ 7; $\alpha(\text{P})=3.41\times 10^{-6}$ 5 Mult.: $\alpha(\text{K})_{\text{exp}}=0.029$ 7 (1976Bo04).
1777.23	6 ⁺	569.3 <i>I</i>	28.9 22	1207.92	4 ⁺	E2	0.0198	$\alpha(\text{K})=0.01477$ 21; $\alpha(\text{L})=0.00384$ 6; $\alpha(\text{M})=0.000935$ 14 $\alpha(\text{N})=0.000233$ 4; $\alpha(\text{O})=4.20\times 10^{-5}$ 6;

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Adopted Levels, Gammas (continued)

$\gamma(^{188}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha^@$	Comments
1777.23	6 ⁺	772.4 1	100 4	1004.89	4 ⁺	E2	0.01017	$\alpha(\text{P})=1.96\times 10^{-6}$ 3 Mult.: $\alpha(\text{K})_{\text{exp}}=0.017$ 4 (1984Co17), $\alpha(\text{L})_{\text{exp}}=0.0036$ 9 (1976Bo04). Other: $A_2=0.37$ 10 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15). $\alpha(\text{K})=0.00796$ 12; $\alpha(\text{L})=0.001683$ 24; $\alpha(\text{M})=0.000402$ 6 $\alpha(\text{N})=0.0001005$ 14; $\alpha(\text{O})=1.84\times 10^{-5}$ 3; $\alpha(\text{P})=1.053\times 10^{-6}$ 15 Mult.: $\alpha(\text{K})_{\text{exp}}=0.0085$ 13 (1976Bo04), 0.0065 11 (1984Co17), $\alpha(\text{L})_{\text{exp}}=0.0021$ 3 and $\text{K/L}=4.1$ 8 (1976Bo04). Other: $A_2=0.26$ 10, $A_4=0.06$ 10, $\text{pol}=0.5$ 2 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15).
1890.43?	4 ⁺	381.5 4 682.8& 4 885.1 4	50 10 20 10 85 9	1509.18 1207.92 1004.89	6 ⁺ 4 ⁺ 4 ⁺	(M1)	0.0208	$\alpha(\text{K})=0.01721$ 25; $\alpha(\text{L})=0.00278$ 4; $\alpha(\text{M})=0.000644$ 9 $\alpha(\text{N})=0.0001615$ 23; $\alpha(\text{O})=3.06\times 10^{-5}$ 5; $\alpha(\text{P})=2.38\times 10^{-6}$ 4 Mult.: $\alpha(\text{K})_{\text{exp}}\approx 0.04$ (1976Bo04).
1907.82	4 ⁺ ,5 ⁺	1009.8 4 1477.5 1 398.2 2 452.7 1	20 10 100 10 18.2 18 85 6	881.10 412.91 1509.18 1455.19	2 ⁺ 2 ⁺ 6 ⁺ 3 ⁺	E2(+M1)	0.1193	$\alpha(\text{K})=0.0982$ 14; $\alpha(\text{L})=0.01620$ 23; $\alpha(\text{M})=0.00376$ 6 $\alpha(\text{N})=0.000944$ 14; $\alpha(\text{O})=0.000179$ 3; $\alpha(\text{P})=1.375\times 10^{-5}$ 20 Mult.: $\alpha(\text{K})_{\text{exp}}=0.029$ 5 (1984Co17).
		700.1 2	100 9	1207.92	4 ⁺	E2+M1	0.0381	$\alpha(\text{K})=0.0314$ 5; $\alpha(\text{L})=0.00512$ 8; $\alpha(\text{M})=0.001186$ 17 $\alpha(\text{N})=0.000297$ 5; $\alpha(\text{O})=5.63\times 10^{-5}$ 8; $\alpha(\text{P})=4.36\times 10^{-6}$ 7 Mult.: $\alpha(\text{K})_{\text{exp}}=0.015$ 5 (1976Bo04), 0.019 3 (1984Co17).
1909.66	5 ⁻	701.7 2 904.8 1	7.3 16 100 6	1207.92 1004.89	4 ⁺ 4 ⁺	E1	0.00277	$\alpha(\text{K})=0.00231$ 4; $\alpha(\text{L})=0.000348$ 5; $\alpha(\text{M})=7.99\times 10^{-5}$ 12 $\alpha(\text{N})=1.99\times 10^{-5}$ 3; $\alpha(\text{O})=3.75\times 10^{-6}$ 6; $\alpha(\text{P})=2.79\times 10^{-7}$ 4 Mult.: $\alpha(\text{K})_{\text{exp}}=0.0027$ 4 (1976Bo04), 0.0020 3 (1984Co17). Other: $A_2=-0.24$ 10, $\text{pol}=0.3$ 1 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15).
1969.86	8 ⁺	460.7 1	100	1509.18	6 ⁺	E2	0.0330	$\alpha(\text{K})=0.0233$ 4; $\alpha(\text{L})=0.00731$ 11; $\alpha(\text{M})=0.00181$ 3 $\alpha(\text{N})=0.000450$ 7; $\alpha(\text{O})=7.98\times 10^{-5}$ 12; $\alpha(\text{P})=3.08\times 10^{-6}$ 5 Mult.: $\alpha(\text{K})_{\text{exp}}=0.014$ 4 (1984Co17). Other: $A_2=0.31$ 6, $A_4=-0.04$ 4, $\text{pol}=0.53$ 13 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15).
2077.00?	(3,4) ⁻	167.3 4 622.0 2	71 14 100 10	1909.66 1455.19	5 ⁻ 3 ⁺	E1	0.00568	$\alpha(\text{K})=0.00473$ 7; $\alpha(\text{L})=0.000731$ 11; $\alpha(\text{M})=0.0001684$ 24 $\alpha(\text{N})=4.20\times 10^{-5}$ 6; $\alpha(\text{O})=7.85\times 10^{-6}$ 11; $\alpha(\text{P})=5.63\times 10^{-7}$ 8 Mult.: $\alpha(\text{K})_{\text{exp}}<0.006$ (1976Bo04).

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Adopted Levels, Gammas (continued) $\gamma(^{188}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha^@$	Comments
2077.00?	(3,4) ⁻	1071.4 4	43 14	1004.89	4 ⁺			
2136.40	(5,6) ⁺	627.2 1	100 6	1509.18	6 ⁺	E2+M1	0.0506	$\alpha(\text{K})=0.0418$ 6; $\alpha(\text{L})=0.00682$ 10; $\alpha(\text{M})=0.001582$ 23 $\alpha(\text{N})=0.000397$ 6; $\alpha(\text{O})=7.52\times 10^{-5}$ 11; $\alpha(\text{P})=5.81\times 10^{-6}$ 9 Mult.: $\alpha(\text{K})_{\text{exp}}=0.029$ 7 (1976Bo04), 0.019 7 (1984Co17).
2201.37	7 ⁻	928.5 1 291.7 1	94 6 100 8	1207.92 1909.66	4 ⁺ 5 ⁻	E2	0.1158	$\alpha(\text{K})=0.0675$ 10; $\alpha(\text{L})=0.0363$ 6; $\alpha(\text{M})=0.00923$ 13 $\alpha(\text{N})=0.00230$ 4; $\alpha(\text{O})=0.000396$ 6; $\alpha(\text{P})=8.67\times 10^{-6}$ 13 Mult.: E2 from $\alpha(\text{K})_{\text{exp}}=0.066$ 16 (1976Bo04). $\alpha(\text{K})_{\text{exp}}=0.021$ 5 (1984Co17) suggests E1. Other: $A_2=0.29$ 5, $A_4=0.03$ 10, $\text{pol}=0.45$ 8 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
		424.1 1	98 8	1777.23	6 ⁺	E1	0.01267	$\alpha(\text{K})=0.01049$ 15; $\alpha(\text{L})=0.001675$ 24; $\alpha(\text{M})=0.000387$ 6 $\alpha(\text{N})=9.64\times 10^{-5}$ 14; $\alpha(\text{O})=1.79\times 10^{-5}$ 3; $\alpha(\text{P})=1.218\times 10^{-6}$ 17 Mult.: $\alpha(\text{K})_{\text{exp}}=0.013$ 3 (1976Bo04), 0.020 10 (1984Co17). Other: $A_2=-0.20$ 8, $A_4=0.0$ 1, $\text{pol}=0.26$ 8 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
		692.3 2	63 5	1509.18	6 ⁺	E1	0.00460	$\alpha(\text{K})=0.00383$ 6; $\alpha(\text{L})=0.000588$ 9; $\alpha(\text{M})=0.0001352$ 19 $\alpha(\text{N})=3.37\times 10^{-5}$ 5; $\alpha(\text{O})=6.31\times 10^{-6}$ 9; $\alpha(\text{P})=4.58\times 10^{-7}$ 7 Mult.: $\alpha(\text{K})_{\text{exp}}\leq 0.005$ (1976Bo04) gives E1, whereas $\alpha(\text{K})_{\text{exp}}=0.0093$ 35 (1984Co17) gives E2. Other: $A_2=-0.12$ 8, $A_4=-0.01$ 10, $\text{pol}=0.2$ 1 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
2249.9?	(6 ⁺)	280.0 4	100	1969.86	8 ⁺			
2274.2?		499.5& 4	100	1774.67?	(3,4,5) ⁺			E_γ : 1984Co17 assign this line to ^{188}Au ε decay.
2295.41	(6) ⁻	385.8 1	100 8	1909.66	5 ⁻	E2+M1	0.183	$\alpha(\text{K})=0.1503$ 21; $\alpha(\text{L})=0.0249$ 4; $\alpha(\text{M})=0.00579$ 9 $\alpha(\text{N})=0.001452$ 21; $\alpha(\text{O})=0.000275$ 4; $\alpha(\text{P})=2.11\times 10^{-5}$ 3 Mult.: $\alpha(\text{K})_{\text{exp}}=0.038$ 10 (1976Bo04), 0.036 9 (1984Co17).
2350.89?	(4,5,6) ⁺	387.5 2 443.1 1	8.1 14 100 11	1907.82 1907.82	4 ⁺ ,5 ⁺ 4 ⁺ ,5 ⁺	E2+M1	0.1263	$\alpha(\text{K})=0.1039$ 15; $\alpha(\text{L})=0.01716$ 24; $\alpha(\text{M})=0.00399$ 6 $\alpha(\text{N})=0.000999$ 14; $\alpha(\text{O})=0.000189$ 3; $\alpha(\text{P})=1.456\times 10^{-5}$ 21 Mult.: $\alpha(\text{K})_{\text{exp}}=0.032$ 7 (1984Co17).
2422.50	8 ⁺	≈ 574 & 841.2 4 645.6 2	95 11 100 8	1777.23 1509.18 1777.23	6 ⁺ 6 ⁺ 6 ⁺	E2	0.01493	$\alpha(\text{K})=0.01139$ 16; $\alpha(\text{L})=0.00269$ 4; $\alpha(\text{M})=0.000651$ 10 $\alpha(\text{N})=0.0001626$ 23; $\alpha(\text{O})=2.95\times 10^{-5}$ 5; $\alpha(\text{P})=1.511\times 10^{-6}$ 22

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Adopted Levels, Gammas (continued)

$\gamma(^{188}\text{Hg})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha^@$	Comments
								Mult.: $\alpha(\text{K})_{\text{exp}}=0.015\ 4$ (1976Bo04), 0.023 9 (1984Co17). Other: $A_2=0.34\ 15$, pol=0.58 25 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
2422.50	8 ⁺	913.2 1	13 4	1509.18	6 ⁺			
2448.98	(8 ⁻)	153.9 4	58 5	2295.41	(6) ⁻	E2	1.000 17	$\alpha(\text{K})=0.311\ 5$; $\alpha(\text{L})=0.516\ 10$; $\alpha(\text{M})=0.1342\ 25$ $\alpha(\text{N})=0.0333\ 6$; $\alpha(\text{O})=0.00558\ 11$; $\alpha(\text{P})=3.98\times 10^{-5}\ 7$ Mult.: $A_2=0.18\ 5$ in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
		247.6 1	100 5	2201.37	7 ⁻			
		478.9& 4	42 5	1969.86	8 ⁺			
2470.78	9 ⁻	269.4 1	100	2201.37	7 ⁻	E2	0.1476	$\alpha(\text{K})=0.0819\ 12$; $\alpha(\text{L})=0.0494\ 7$; $\alpha(\text{M})=0.01260\ 18$ $\alpha(\text{N})=0.00313\ 5$; $\alpha(\text{O})=0.000537\ 8$; $\alpha(\text{P})=1.044\times 10^{-5}\ 15$ Mult.: $A_2=0.30\ 4$, $A_4=0.01\ 10$, pol=0.5 1 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
2490.76	10 ⁺	521.0‡ 3	100‡	1969.86	8 ⁺	E2	0.0244	$\alpha(\text{K})=0.0178\ 3$; $\alpha(\text{L})=0.00499\ 7$; $\alpha(\text{M})=0.001223\ 18$ $\alpha(\text{N})=0.000305\ 5$; $\alpha(\text{O})=5.45\times 10^{-5}\ 8$; $\alpha(\text{P})=2.36\times 10^{-6}\ 4$ Mult.: $A_2=0.39\ 9$, $A_4=-0.1\ 1$, pol=0.56 12 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).
2566.99?		789.8 4	45 9	1777.23	6 ⁺			
		1057.8 1	100 9	1509.18	6 ⁺			
2662.35	10 ⁺	171.6‡ 3	41‡ 10	2490.76	10 ⁺	E2+M1	1.70 3	$\alpha(\text{K})=1.393\ 21$; $\alpha(\text{L})=0.235\ 4$; $\alpha(\text{M})=0.0547\ 9$ $\alpha(\text{N})=0.01371\ 21$; $\alpha(\text{O})=0.00259\ 4$; $\alpha(\text{P})=0.000198\ 3$ Mult.: $A_2=0.21\ 5$ in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15); DCO=1.5 3 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ); $\Delta J=0$ transition.
		239.7‡ 3	18‡ 5	2422.50	8 ⁺			
		692.6‡ 3	100‡ 15	1969.86	8 ⁺			
2680.9?	(6 ⁺ ,7,8 ⁺)	711.0 4	8 4	1969.86	8 ⁺			
		1170.5& 4	100 13	1509.18	6 ⁺			
2724.1	12 ⁺	61.6‡ 7	100‡	2662.35	10 ⁺	[E2]	49 3	B(E2)(W.u.)=1.30 23 $\alpha(\text{L})=37.0\ 22$; $\alpha(\text{M})=9.7\ 6$ $\alpha(\text{N})=2.39\ 14$; $\alpha(\text{O})=0.395\ 23$; $\alpha(\text{P})=0.000539\ 25$
		233.3 3		2490.76	10 ⁺	[E2]	0.233	$\alpha(\text{K})=0.1165\ 17$; $\alpha(\text{L})=0.0877\ 14$; $\alpha(\text{M})=0.0225\ 4$ $\alpha(\text{N})=0.00560\ 9$; $\alpha(\text{O})=0.000953\ 15$; $\alpha(\text{P})=1.467\times 10^{-5}\ 21$ E_γ : Observed only in $^{168}\text{Er}(^{24}\text{Mg},4n\gamma)$ (1983Ha15).
2784.16	(10 ⁻)	313.3‡ 3	100‡ 3	2470.78	9 ⁻	(M1)	0.321	$\alpha(\text{K})=0.263\ 4$; $\alpha(\text{L})=0.0439\ 7$; $\alpha(\text{M})=0.01021\ 15$ $\alpha(\text{N})=0.00256\ 4$; $\alpha(\text{O})=0.000484\ 7$;

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Adopted Levels, Gammas (continued) $\gamma(^{188}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha^@$	Comments
								$\alpha(\text{P})=3.72\times 10^{-5}$ 6 Mult.: DCO=1.44 11 in $^{156}\text{Gd}(^{36}\text{S},4\text{n}\gamma)$ (1993BeZJ).
2784.16	(10 ⁻)	335.3 \ddagger 3	14.2 \ddagger 14	2448.98	(8 ⁻)	(E2)	0.0770	$\alpha(\text{K})=0.0483$ 7; $\alpha(\text{L})=0.0216$ 4; $\alpha(\text{M})=0.00545$ 8 $\alpha(\text{N})=0.001358$ 20; $\alpha(\text{O})=0.000236$ 4; $\alpha(\text{P})=6.28\times 10^{-6}$ 9 Mult.: $A_2=0.18$ 10, pol=0.24 7 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15).
2946.90	10 ⁺	456.2 \ddagger 3	92 \ddagger 6	2490.76	10 ⁺	(E2+M1)	0.1169	$\alpha(\text{K})=0.0962$ 14; $\alpha(\text{L})=0.01587$ 23; $\alpha(\text{M})=0.00369$ 6 $\alpha(\text{N})=0.000924$ 13; $\alpha(\text{O})=0.0001750$ 25; $\alpha(\text{P})=1.347\times 10^{-5}$ 19 Mult.: $A_2=0.19$ 10, pol=0.45 10 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15). Other: DCO=1.25 8 in $^{156}\text{Gd}(^{36}\text{S},4\text{n}\gamma)$ (1993BeZJ); $\Delta\text{J}=0$ transition.
		524.3 \ddagger 3	100 \ddagger 7	2422.50	8 ⁺	E2	0.0240	$\alpha(\text{K})=0.01759$ 25; $\alpha(\text{L})=0.00490$ 7; $\alpha(\text{M})=0.001199$ 17 $\alpha(\text{N})=0.000299$ 5; $\alpha(\text{O})=5.35\times 10^{-5}$ 8; $\alpha(\text{P})=2.33\times 10^{-6}$ 4 Mult.: $A_2=0.21$ 5, pol=0.4 2. Other: DCO=1.44 25 in $^{156}\text{Gd}(^{36}\text{S},4\text{n}\gamma)$ (1993BeZJ).
2967.9	(11 ⁻)	183.8 \ddagger 3	100 \ddagger 9	2784.16	(10 ⁻)	(E2+M1)	1.400	$\alpha(\text{K})=1.148$ 17; $\alpha(\text{L})=0.193$ 3; $\alpha(\text{M})=0.0450$ 7 $\alpha(\text{N})=0.01129$ 17; $\alpha(\text{O})=0.00214$ 4; $\alpha(\text{P})=0.0001634$ 24 Mult.: DCO=1.27 12 in $^{156}\text{Gd}(^{36}\text{S},4\text{n}\gamma)$ (1993BeZJ).
		305.3 \ddagger & 3	9 \ddagger 4	2662.35	10 ⁺			
3011.4	11 ⁻	540.6 \ddagger 3	100 \ddagger	2470.78	9 ⁻	E2	0.0224	$\alpha(\text{K})=0.01648$ 24; $\alpha(\text{L})=0.00447$ 7; $\alpha(\text{M})=0.001092$ 16 $\alpha(\text{N})=0.000272$ 4; $\alpha(\text{O})=4.88\times 10^{-5}$ 7; $\alpha(\text{P})=2.19\times 10^{-6}$ 3 Mult.: $A_2=0.32$ 6, $A_4=-0.02$ 10, pol=0.4 1 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15). Other: DCO=1.47 11 in $^{156}\text{Gd}(^{36}\text{S},4\text{n}\gamma)$ (1993BeZJ).
3069.4	12 ⁺	578.6 \ddagger 3	100 \ddagger	2490.76	10 ⁺	E2	0.0191	$\alpha(\text{K})=0.01428$ 20; $\alpha(\text{L})=0.00366$ 6; $\alpha(\text{M})=0.000891$ 13 $\alpha(\text{N})=0.000222$ 4; $\alpha(\text{O})=4.00\times 10^{-5}$ 6; $\alpha(\text{P})=1.90\times 10^{-6}$ 3 Mult.: $A_2=0.29$ 7, $A_4=-0.14$ 10, pol=0.4 2 in $^{164}\text{Dy}(^{28}\text{Si},4\text{n}\gamma)$ (1988Ha15). Other: DCO=1.23 10 in $^{156}\text{Gd}(^{36}\text{S},4\text{n}\gamma)$ (1993BeZJ).
3113.6	(12 ⁺)	451.3 \ddagger 3	100 \ddagger	2662.35	10 ⁺			
3161.5	14 ⁺	437.4 \ddagger 3	100 \ddagger	2724.1	12 ⁺	E2	0.0376	$\alpha(\text{K})=0.0262$ 4; $\alpha(\text{L})=0.00864$ 13; $\alpha(\text{M})=0.00214$ 3 $\alpha(\text{N})=0.000534$ 8; $\alpha(\text{O})=9.44\times 10^{-5}$ 14; $\alpha(\text{P})=3.45\times 10^{-6}$ 5

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Adopted Levels, Gammas (continued)

$\gamma(^{188}\text{Hg})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$a^{\text{@}}$	Comments
3219.1	(11 ⁻)	272.2 [‡] 3	100 [‡] 3	2946.90	10 ⁺	(E1)	0.0349	Mult.: $A_2=0.29$ 7, $A_4=-0.03$ 3, $\text{pol}=0.43$ 10 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.20 7 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).
		728.4 [‡] 3	8.3 [‡] 25	2490.76	10 ⁺	(E1)	0.00417	$\alpha(\text{K})=0.0287$ 4; $\alpha(\text{L})=0.00479$ 7; $\alpha(\text{M})=0.001110$ 16 $\alpha(\text{N})=0.000276$ 4; $\alpha(\text{O})=5.06\times 10^{-5}$ 8; $\alpha(\text{P})=3.20\times 10^{-6}$ 5 Mult.: $A_2=-0.28$ 10, $\text{pol}=0.3$ 1 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=0.80 10 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).
3250.0	(12 ⁻)	465.8 [‡] 3	100 [‡]	2784.16	(10 ⁻)	E2	0.0321	$\alpha(\text{K})=0.0227$ 4; $\alpha(\text{L})=0.00706$ 10; $\alpha(\text{M})=0.001743$ 25 $\alpha(\text{N})=0.000435$ 7; $\alpha(\text{O})=7.71\times 10^{-5}$ 11; $\alpha(\text{P})=3.01\times 10^{-6}$ 5 Mult.: $A_2=0.21$ 5, $A_4=-0.13$ 10, $\text{pol}=0.25$ 8 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.41 11 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).
3447.1	(13 ⁻)	197.2 [‡] & 3 479.2 [‡] 3	5.8 [‡] 13 100 [‡] 8	3250.0	(12 ⁻)			
				2967.9	(11 ⁻)	E2	0.0299	$\alpha(\text{K})=0.0214$ 3; $\alpha(\text{L})=0.00645$ 10; $\alpha(\text{M})=0.001590$ 23 $\alpha(\text{N})=0.000397$ 6; $\alpha(\text{O})=7.05\times 10^{-5}$ 10; $\alpha(\text{P})=2.83\times 10^{-6}$ 4 Mult.: $A_2=0.29$ 9, $A_4=-0.1$ 1, $\text{pol}=0.23$ 7 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.30 10 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).
3682.0	13 ⁻	670.6 [‡] 3	100 [‡]	3011.4	11 ⁻	E2	0.01374	$\alpha(\text{K})=0.01055$ 15; $\alpha(\text{L})=0.00243$ 4; $\alpha(\text{M})=0.000586$ 9 $\alpha(\text{N})=0.0001464$ 21; $\alpha(\text{O})=2.66\times 10^{-5}$ 4; $\alpha(\text{P})=1.399\times 10^{-6}$ 20 Mult.: $A_2=0.23$ 6, $A_4=-0.04$ 10 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.56 12 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).
3687.8	(13 ⁻)	468.7 [‡] 3	100 [‡]	3219.1	(11 ⁻)	E2	0.0316	$\alpha(\text{K})=0.0224$ 4; $\alpha(\text{L})=0.00692$ 10; $\alpha(\text{M})=0.001708$ 25 $\alpha(\text{N})=0.000426$ 6; $\alpha(\text{O})=7.56\times 10^{-5}$ 11; $\alpha(\text{P})=2.97\times 10^{-6}$ 5 Mult.: DCO=1.27 9 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).
3689.5	14 ⁺	620.1 [‡] 3	100 [‡]	3069.4	12 ⁺	E2	0.01633	$\alpha(\text{K})=0.01237$ 18; $\alpha(\text{L})=0.00301$ 5; $\alpha(\text{M})=0.000729$ 11 $\alpha(\text{N})=0.000182$ 3; $\alpha(\text{O})=3.29\times 10^{-5}$ 5;

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

								$\gamma(^{188}\text{Hg})$ (continued)	
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha^{\text{@}}$	Comments	
								$\alpha(\text{P})=1.642\times 10^{-6}$ 23 Mult.: $A_2=0.28$ 10, $A_4=-0.05$ 6, $\text{pol}=0.3$ 1 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.43 9 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).	
3804.3	(14 ⁺)	690.7 \ddagger 3	100 \ddagger	3113.6	(12 ⁺)				
3821.3	16 ⁺	659.8 \ddagger 3	100 \ddagger	3161.5	14 ⁺	E2	0.01423	$\alpha(\text{K})=0.01090$ 16; $\alpha(\text{L})=0.00254$ 4; $\alpha(\text{M})=0.000613$ 9 $\alpha(\text{N})=0.0001530$ 22; $\alpha(\text{O})=2.78\times 10^{-5}$ 4; $\alpha(\text{P})=1.446\times 10^{-6}$ 21 Mult.: DCO=1.43 8 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).	
3931.7	(14 ⁻)	681.7 \ddagger 3	100 \ddagger	3250.0	(12 ⁻)				
4126.7	(15 ⁻)	679.6 \ddagger 3	100 \ddagger	3447.1	(13 ⁻)	E2	0.01335	$\alpha(\text{K})=0.01027$ 15; $\alpha(\text{L})=0.00235$ 4; $\alpha(\text{M})=0.000565$ 8 $\alpha(\text{N})=0.0001411$ 20; $\alpha(\text{O})=2.56\times 10^{-5}$ 4; $\alpha(\text{P})=1.361\times 10^{-6}$ 19 Mult.: $A_2=0.35$ 15, $A_4=-0.15$ 15 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.4 3 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).	
4160.2	(15 ⁻)	472.4 \ddagger 3	100 \ddagger	3687.8	(13 ⁻)	E2	0.0310	$\alpha(\text{K})=0.0220$ 4; $\alpha(\text{L})=0.00675$ 10; $\alpha(\text{M})=0.001665$ 24 $\alpha(\text{N})=0.000415$ 6; $\alpha(\text{O})=7.37\times 10^{-5}$ 11; $\alpha(\text{P})=2.92\times 10^{-6}$ 5 Mult.: $A_2=0.27$ 10, $\text{pol}=0.38$ 11 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.32 12 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).	
4255.6	(16 ⁺)	451.3 \ddagger 3	100 \ddagger	3804.3	(14 ⁺)				
4256.9	15 ⁻	574.9 \ddagger 3	100 \ddagger 3	3682.0	13 ⁻	E2	0.0194	$\alpha(\text{K})=0.01447$ 21; $\alpha(\text{L})=0.00373$ 6; $\alpha(\text{M})=0.000908$ 13 $\alpha(\text{N})=0.000227$ 4; $\alpha(\text{O})=4.08\times 10^{-5}$ 6; $\alpha(\text{P})=1.92\times 10^{-6}$ 3 Mult.: $A_2=0.30$ 15 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.46 12 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).	
4329.6	16 ⁺	809.8 \ddagger 3 640.1 \ddagger 3	14 \ddagger 3 100 \ddagger	3447.1	(13 ⁻) 14 ⁺	E2	0.01522	$\alpha(\text{K})=0.01159$ 17; $\alpha(\text{L})=0.00276$ 4; $\alpha(\text{M})=0.000667$ 10 $\alpha(\text{N})=0.0001665$ 24; $\alpha(\text{O})=3.02\times 10^{-5}$ 5; $\alpha(\text{P})=1.538\times 10^{-6}$ 22 Mult.: $A_2=0.21$ 6, $\text{pol}=0.4$ 2 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.42 11 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).	
4502.9	(16)	681.6 \ddagger 3	100 \ddagger	3821.3	16 ⁺	D		Mult.: $A_2=0.4$ 3, $\Delta J=0$ in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15).	
4554.2	17 ⁻	297.3 \ddagger 3	100 \ddagger 3	4256.9	15 ⁻	E2	0.1094	$\alpha(\text{K})=0.0645$ 10; $\alpha(\text{L})=0.0338$ 5; $\alpha(\text{M})=0.00858$ 13 $\alpha(\text{N})=0.00214$ 4; $\alpha(\text{O})=0.000368$ 6; $\alpha(\text{P})=8.29\times 10^{-6}$ 12 Mult.: $A_2=0.36$ 9, $\text{pol}=0.46$ 14 in $^{164}\text{Dy}(^{28}\text{Si},4n\gamma)$ (1988Ha15). Other: DCO=1.29 20 in $^{156}\text{Gd}(^{36}\text{S},4n\gamma)$ (1993BeZJ).	
		427.5 \ddagger 3	34 \ddagger 3	4126.7	(15 ⁻)	E2	0.0398	$\alpha(\text{K})=0.0275$ 4; $\alpha(\text{L})=0.00932$ 14; $\alpha(\text{M})=0.00231$	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{188}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.#	$\alpha^@$	Comments
								4 $\alpha(\text{N})=0.000577$ 9; $\alpha(\text{O})=0.0001017$ 15; $\alpha(\text{P})=3.63\times 10^{-6}$ 6 Mult.: $A_2=0.24$ 8 in $^{164}\text{Dy}(^{28}\text{Si},4\text{ny})$ (1988Ha15). Other: DCO=1.23 17 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).
4554.2	17 ⁻	732.8 [‡] 3	30 [‡] 3	3821.3	16 ⁺	(E1)	0.00412	$\alpha(\text{K})=0.00344$ 5; $\alpha(\text{L})=0.000525$ 8; $\alpha(\text{M})=0.0001206$ 17 $\alpha(\text{N})=3.01\times 10^{-5}$ 5; $\alpha(\text{O})=5.64\times 10^{-6}$ 8; $\alpha(\text{P})=4.12\times 10^{-7}$ 6 Mult.: DCO=0.84 14 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).
4581.8	18 ⁺	760.5 [‡] 3	100 [‡]	3821.3	16 ⁺	E2	0.01050	$\alpha(\text{K})=0.00821$ 12; $\alpha(\text{L})=0.001751$ 25; $\alpha(\text{M})=0.000419$ 6 $\alpha(\text{N})=0.0001046$ 15; $\alpha(\text{O})=1.91\times 10^{-5}$ 3; $\alpha(\text{P})=1.086\times 10^{-6}$ 16 Mult.: $A_2=0.33$ 7, $\text{pol}=0.7$ 3 in $^{164}\text{Dy}(^{28}\text{Si},4\text{ny})$ (1988Ha15). Other: DCO=1.60 10 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).
4628.2	(17 ⁻)	468.0 [‡] 3	100 [‡]	4160.2	(15 ⁻)			
4841.1	(17 ⁻)	714.4 [‡] 3	100 [‡]	4126.7	(15 ⁻)			
4850.5	(18)	347.6 [‡] 3	100 [‡]	4502.9	(16)	E2	0.0695	$\alpha(\text{K})=0.0444$ 7; $\alpha(\text{L})=0.0190$ 3; $\alpha(\text{M})=0.00478$ 7 $\alpha(\text{N})=0.001190$ 17; $\alpha(\text{O})=0.000207$ 3; $\alpha(\text{P})=5.78\times 10^{-6}$ 9 Mult.: DCO=1.39 13 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).
4949.9	19 ⁻	395.7 [‡] 3	100 [‡]	4554.2	17 ⁻	E2	0.0488	$\alpha(\text{K})=0.0328$ 5; $\alpha(\text{L})=0.01208$ 18; $\alpha(\text{M})=0.00301$ 5 $\alpha(\text{N})=0.000751$ 11; $\alpha(\text{O})=0.0001318$ 19; $\alpha(\text{P})=4.31\times 10^{-6}$ 6 Mult.: DCO=1.19 14 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).
4988.6	18 ⁺	659.0 [‡] 3	100 [‡]	4329.6	16 ⁺	E2	0.01427	$\alpha(\text{K})=0.01093$ 16; $\alpha(\text{L})=0.00255$ 4; $\alpha(\text{M})=0.000615$ 9 $\alpha(\text{N})=0.0001536$ 22; $\alpha(\text{O})=2.79\times 10^{-5}$ 4; $\alpha(\text{P})=1.449\times 10^{-6}$ 21 Mult.: DCO=1.29 17 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).
5150.5	(19 ⁻)	522.3 [‡] 3	100 [‡]	4628.2	(17 ⁻)	E2	0.0243	$\alpha(\text{K})=0.01773$ 25; $\alpha(\text{L})=0.00495$ 7; $\alpha(\text{M})=0.001213$ 18 $\alpha(\text{N})=0.000303$ 5; $\alpha(\text{O})=5.41\times 10^{-5}$ 8; $\alpha(\text{P})=2.35\times 10^{-6}$ 4 Mult.: DCO=1.36 23 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).
5306.3	20 ⁺	724.5 [‡] 3	100 [‡]	4581.8	18 ⁺	E2	0.01163	$\alpha(\text{K})=0.00903$ 13; $\alpha(\text{L})=0.00198$ 3; $\alpha(\text{M})=0.000476$ 7 $\alpha(\text{N})=0.0001188$ 17; $\alpha(\text{O})=2.17\times 10^{-5}$ 3; $\alpha(\text{P})=1.196\times 10^{-6}$ 17 Mult.: DCO=1.52 11 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).
5397.4	(20)	546.9 [‡] 3	100 [‡]	4850.5	(18)	E2	0.0218	$\alpha(\text{K})=0.01608$ 23; $\alpha(\text{L})=0.00432$ 6; $\alpha(\text{M})=0.001054$ 15 $\alpha(\text{N})=0.000263$ 4; $\alpha(\text{O})=4.72\times 10^{-5}$ 7;

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

								$\gamma(^{188}\text{Hg})$ (continued)	
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. #	$\alpha^@$	Comments	
								$\alpha(\text{P})=2.13\times 10^{-6}$ 3 Mult.: DCO=1.34 19 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).	
5469.0	20 ⁺	887.2 [‡] 3	100 [‡]	4581.8	18 ⁺	E2	0.00766	$\alpha(\text{K})=0.00609$ 9; $\alpha(\text{L})=0.001199$ 17; $\alpha(\text{M})=0.000284$ 4 $\alpha(\text{N})=7.11\times 10^{-5}$ 10; $\alpha(\text{O})=1.310\times 10^{-5}$ 19; $\alpha(\text{P})=8.02\times 10^{-7}$ 12 Mult.: DCO=1.32 25 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).	
5582.7	21 ⁻	632.8 [‡] 3	100 [‡]	4949.9	19 ⁻	E2	0.01561	$\alpha(\text{K})=0.01187$ 17; $\alpha(\text{L})=0.00285$ 4; $\alpha(\text{M})=0.000689$ 10 $\alpha(\text{N})=0.0001720$ 25; $\alpha(\text{O})=3.11\times 10^{-5}$ 5; $\alpha(\text{P})=1.575\times 10^{-6}$ 22 Mult.: DCO=1.43 16 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).	
5602.1	(19 ⁻)	761.0 [‡] 3	100 [‡]	4841.1	(17 ⁻)				
5605.3	21 ⁻	655.4 [‡] 3	100 [‡]	4949.9	19 ⁻	E2	0.01445	$\alpha(\text{K})=0.01105$ 16; $\alpha(\text{L})=0.00259$ 4; $\alpha(\text{M})=0.000624$ 9 $\alpha(\text{N})=0.0001559$ 22; $\alpha(\text{O})=2.83\times 10^{-5}$ 4; $\alpha(\text{P})=1.465\times 10^{-6}$ 21 Mult.: $A_2=0.33$ 15 in $^{164}\text{Dy}(^{28}\text{Si},4\text{ny})$ (1988Ha15). Other: DCO=1.25 21 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).	
5684.3	20 ⁺	695.7 [‡] 3	100 [‡]	4988.6	18 ⁺	E2	0.01269	$\alpha(\text{K})=0.00980$ 14; $\alpha(\text{L})=0.00220$ 3; $\alpha(\text{M})=0.000530$ 8 $\alpha(\text{N})=0.0001324$ 19; $\alpha(\text{O})=2.41\times 10^{-5}$ 4; $\alpha(\text{P})=1.298\times 10^{-6}$ 19 Mult.: $A_2=0.18$ 4 in $^{164}\text{Dy}(^{28}\text{Si},4\text{ny})$ (1988Ha15).	
5706.6	(20 ⁺)	718.0 [‡] 3	100 [‡]	4988.6	18 ⁺				
5742.5	(21 ⁻)	592.0 [‡] 3	100 [‡]	5150.5	(19 ⁻)				
5916.8	22 ⁺	610.5 [‡] 3	100 [‡]	5306.3	20 ⁺	E2	0.01691	$\alpha(\text{K})=0.01277$ 18; $\alpha(\text{L})=0.00315$ 5; $\alpha(\text{M})=0.000763$ 11 $\alpha(\text{N})=0.000190$ 3; $\alpha(\text{O})=3.44\times 10^{-5}$ 5; $\alpha(\text{P})=1.695\times 10^{-6}$ 24 Mult.: $A_2=0.3$ 2 in $^{164}\text{Dy}(^{28}\text{Si},4\text{ny})$ (1988Ha15). Other: DCO=1.47 25 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).	
6162.0	(23 ⁻)	556.7 [‡] 3	100 [‡] 19	5605.3	21 ⁻				
		579.3 [‡] 3	43 [‡] 14	5582.7	21 ⁻				
6243.0	(22 ⁺)	774.0 [‡] 3	75 [‡] 25	5469.0	20 ⁺				
		936.7 [‡] 3	100 [‡] 50	5306.3	20 ⁺	E2	0.00687	$\alpha(\text{K})=0.00549$ 8; $\alpha(\text{L})=0.001055$ 15; $\alpha(\text{M})=0.000250$ 4 $\alpha(\text{N})=6.24\times 10^{-5}$ 9; $\alpha(\text{O})=1.152\times 10^{-5}$ 17; $\alpha(\text{P})=7.22\times 10^{-7}$ 11 Mult.: DCO=1.7 4 in $^{156}\text{Gd}(^{36}\text{S},4\text{ny})$ (1993BeZJ).	
6386.3	(23 ⁻)	803.6 [‡] 3	100 [‡]	5582.7	21 ⁻				
6402.9	(22 ⁺)	718.6 4	100	5684.3	20 ⁺	E2	0.01184	$\alpha(\text{K})=0.00918$ 13; $\alpha(\text{L})=0.00203$ 3; $\alpha(\text{M})=0.000486$ 7	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{188}\text{Hg})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\ddagger	E_f	J_f^π	Mult. #	$\alpha^@$	Comments
6405.7	(23 ⁻)	663.2 ‡ 3	100 ‡	5742.5	(21 ⁻)	E2	0.01408	$\alpha(\text{N})=0.0001214$ 17; $\alpha(\text{O})=2.21\times 10^{-5}$ 4; $\alpha(\text{P})=1.216\times 10^{-6}$ 17 E_γ, I_γ : From $^{164}\text{Dy}(^{28}\text{Si}, 4n\gamma)$ (1988Ha15). Mult.: $A_2=0.26$ 12 in $^{164}\text{Dy}(^{28}\text{Si}, 4n\gamma)$ (1988Ha15). $\alpha(\text{K})=0.01079$ 16; $\alpha(\text{L})=0.00250$ 4; $\alpha(\text{M})=0.000604$ 9
6408.1	22 ⁺	723.8 ‡ 3	100 ‡	5684.3	20 ⁺	E2	0.01166	$\alpha(\text{N})=0.0001509$ 22; $\alpha(\text{O})=2.74\times 10^{-5}$ 4; $\alpha(\text{P})=1.430\times 10^{-6}$ 20 Mult.: DCO=1.7 4 in $^{156}\text{Gd}(^{36}\text{S}, 4n\gamma)$ (1993BeZJ). $\alpha(\text{K})=0.00905$ 13; $\alpha(\text{L})=0.00199$ 3; $\alpha(\text{M})=0.000477$ 7
6717.8	(24 ⁺)	801.0 ‡ 3	100 ‡	5916.8	22 ⁺			
6831.5	(24 ⁺)	588.5 ‡ 3	100 ‡	6243.0	(22 ⁺)			
6953.0	(25 ⁻)	791.0 ‡ 3	100 ‡	6162.0	(23 ⁻)			
7138.9	(25 ⁻)	733.2 ‡ 3	100 ‡	6405.7	(23 ⁻)	E2	0.01134	$\alpha(\text{K})=0.00882$ 13; $\alpha(\text{L})=0.00192$ 3; $\alpha(\text{M})=0.000461$ 7 $\alpha(\text{N})=0.0001151$ 17; $\alpha(\text{O})=2.10\times 10^{-5}$ 3; $\alpha(\text{P})=1.168\times 10^{-6}$ 17 Mult.: DCO=1.26 14 in $^{156}\text{Gd}(^{36}\text{S}, 4n\gamma)$ (1993BeZJ).
7314.9?	(26 ⁺)	597 ‡ &	100 ‡	6717.8	(24 ⁺)			
7852.8	(27 ⁻)	899.8 ‡ 3	100 ‡	6953.0	(25 ⁻)			
7941.1	(27 ⁻)	802.2 ‡ 3	100 ‡	7138.9	(25 ⁻)	E2	0.00940	$\alpha(\text{K})=0.00739$ 11; $\alpha(\text{L})=0.001531$ 22; $\alpha(\text{M})=0.000365$ 6 $\alpha(\text{N})=9.13\times 10^{-5}$ 13; $\alpha(\text{O})=1.673\times 10^{-5}$ 24; $\alpha(\text{P})=9.77\times 10^{-7}$ 14 Mult.: DCO=1.2 3 in $^{156}\text{Gd}(^{36}\text{S}, 4n\gamma)$ (1993BeZJ).

† From ^{188}Tl ε decay, unless otherwise stated.

‡ From $^{156}\text{Gd}(^{36}\text{S}, 4n\gamma)$ data.

From ce data in ^{188}Tl ε decay for levels below 2470 keV. Above this energy, the multipolarity assignment is from $\gamma(\theta)$, $\gamma(\text{lin pol})$ and DCO data in $^{156}\text{Gd}(^{36}\text{S}, 4n\gamma)$ (1993BeZJ) and $^{164}\text{Dy}(^{28}\text{Si}, 4n\gamma)$ (1988Ha15).

@ Additional information 2.

& Placement of transition in the level scheme is uncertain.

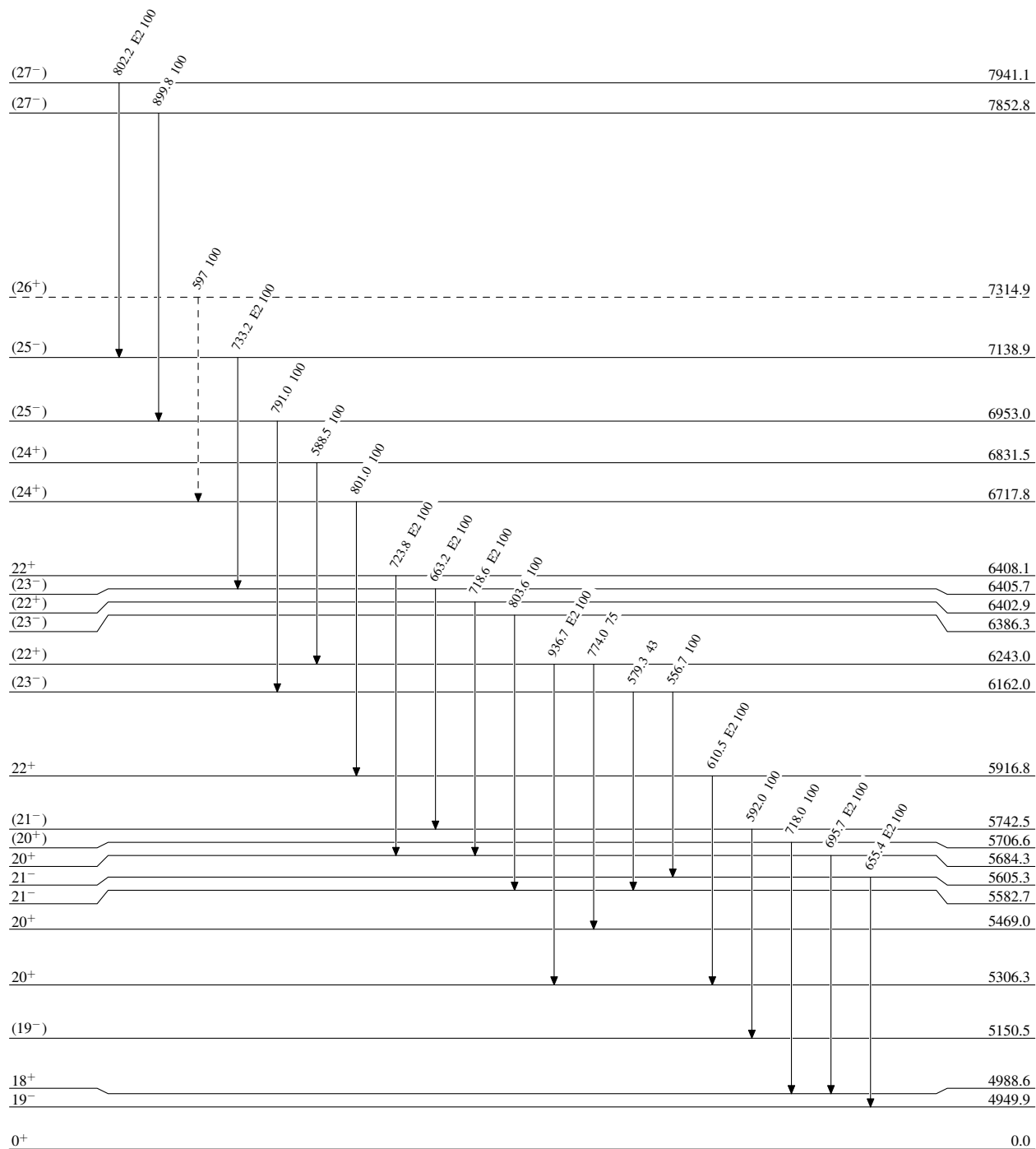
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



$^{188}_{80}\text{Hg}_{108}$

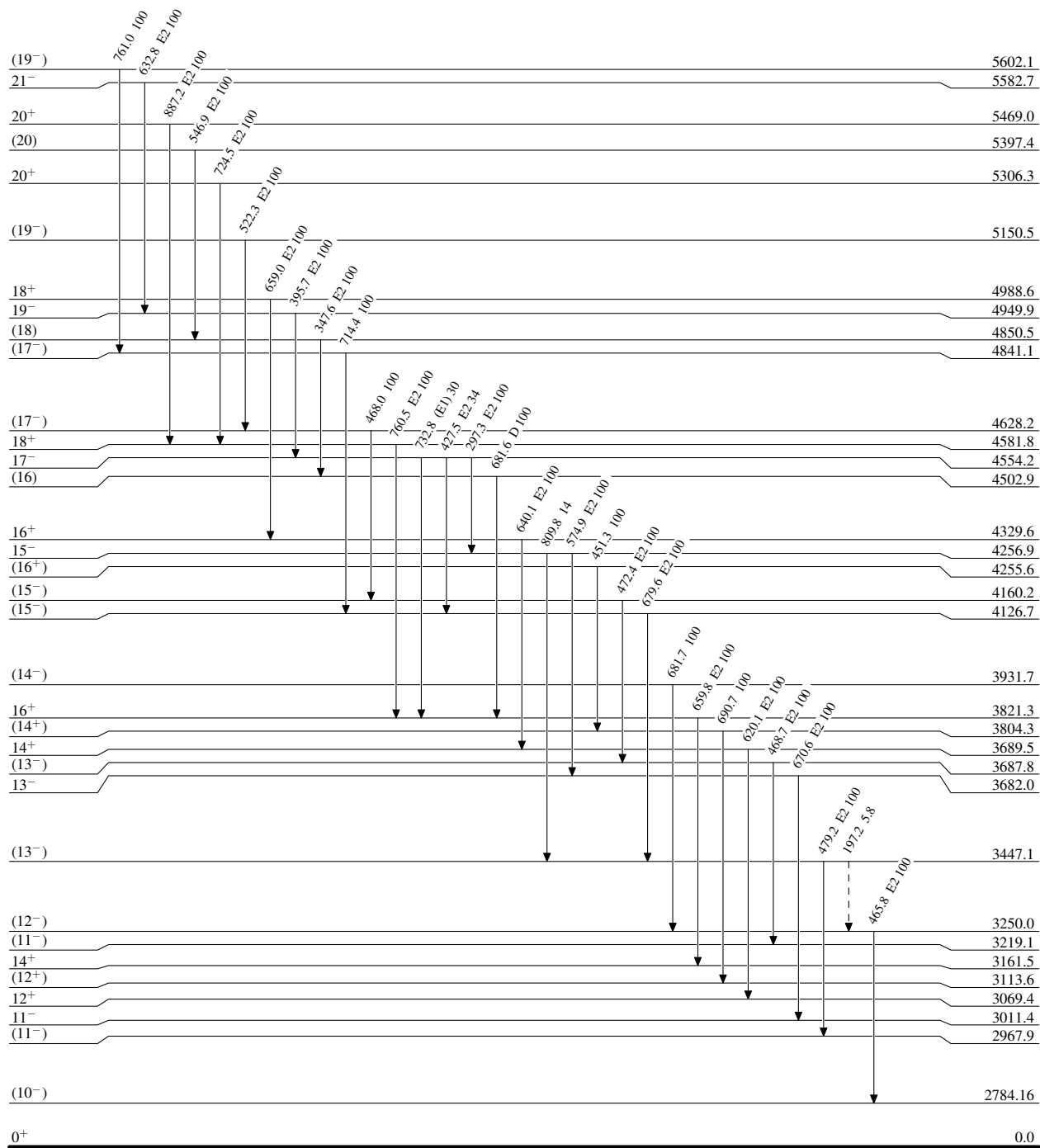
3.25 min 15

Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

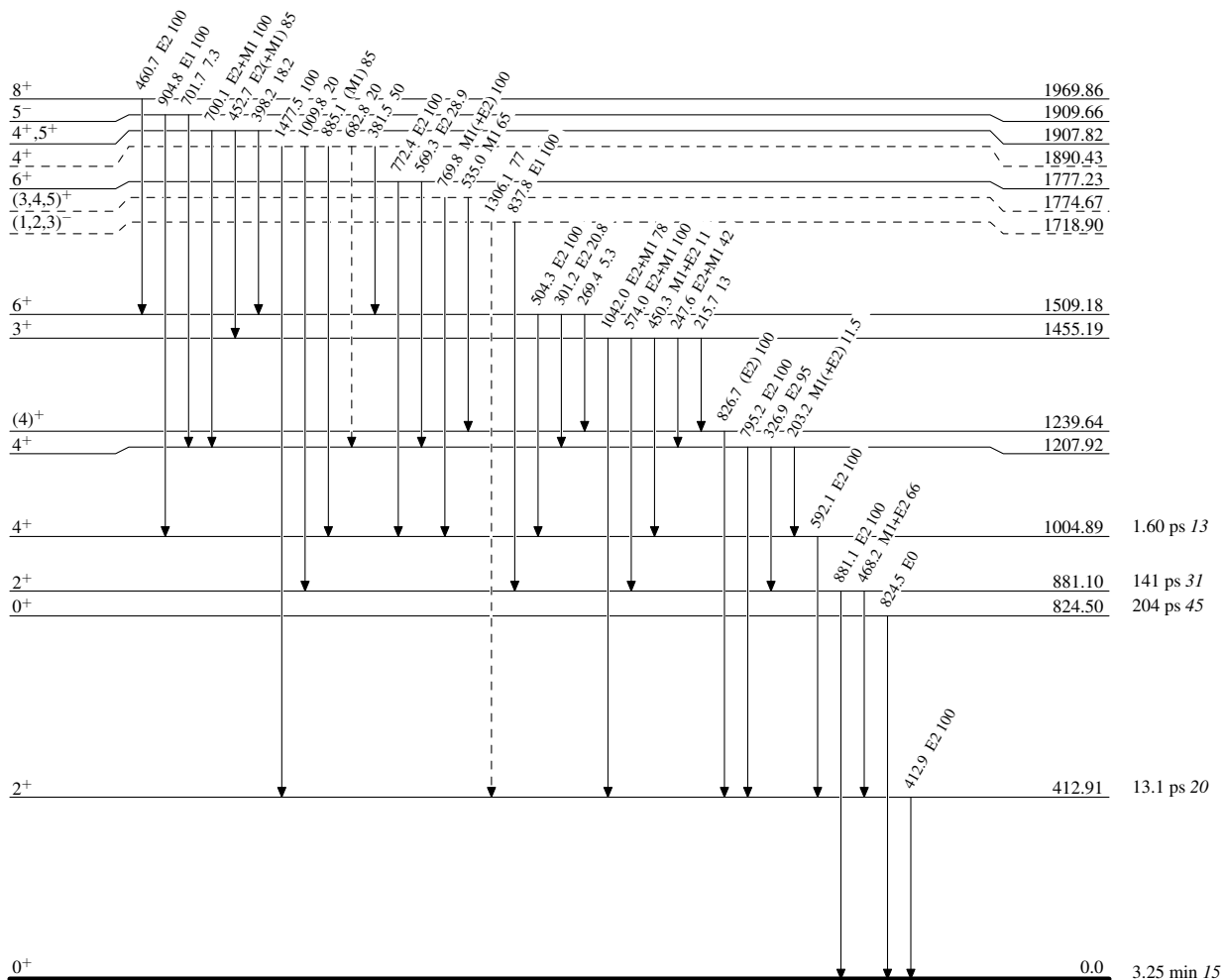
-----▶ γ Decay (Uncertain)

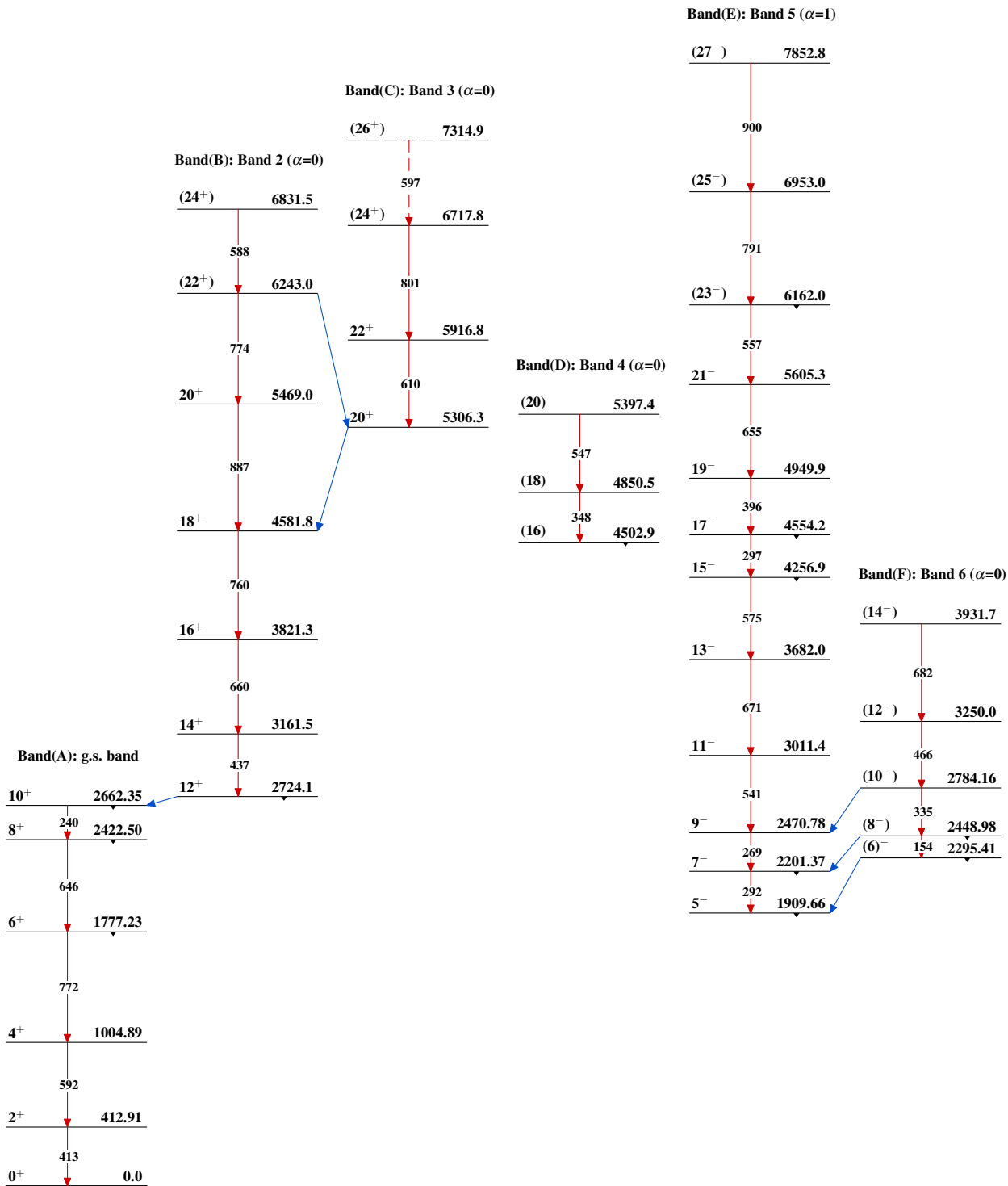
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain) $^{188}_{80}\text{Hg}_{108}$

Adopted Levels, Gammas

Adopted Levels, Gammas (continued)