

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(β⁻)=-5450 6; S(n)=9207 25; S(p)=5561 28; Q(α)=4007 5 [2017Wa10](#)

[Additional information 1.](#)

¹⁸⁸Pt Levels

Cross Reference (XREF) Flags

- A ¹⁸⁸Au ε decay (8.84 min)
- B ¹⁹⁰Pt(p,t)
- C (HL,xnγ)

E(level) [†]	J ^π [‡]	T _{1/2} [#]	XREF	Comments
0.0 [@]	0 ⁺	10.16 d 18	ABC	%ε+%β ⁺ =99.999974 3; %α=2.6×10 ⁻⁵ 3 %α: Weighted average of 2.2×10 ⁻⁵ 5 (1979Ha10), 2.8×10 ⁻⁵ 5 (1978E111) and 3.0×10 ⁻⁵ 6 (1963Gr08). Other: 5.0×10 ⁻⁵ +50-25 (1963Ka17). T _{1/2} : Weighted average of 10.5 d 10 (1963Ka17), 10.2 d 3 (1963Gr08), 10.0 d 3 (1955Sm42), and 10.3 d 4 (1954Na25). Eα=3870 keV 50 (1963Ka17), 3930 keV 10 (1963Gr08), 3915 keV 10 (1978E111) and 3905 keV 15 (1979Ha10). Δ<r ² >(¹⁹⁰ Pt- ¹⁸⁸ Pt)=-0.040 fm ² 8 (1988Le22). Δ<r ² >(¹⁹⁴ Pt- ¹⁸⁸ Pt)=-0.188 fm ² 7 (1992Hi07 , 1990Hi08).
265.61 [@] 5	2 ⁺	66 ps 3	A C	μ=+0.58 8 J ^π : 265.63γ E2 to 0 ⁺ . T _{1/2} : Weighted average of 65 ps 5 (1995AnZQ) and 67 ps +4-3 (2017Ro07), both using the Doppler-shift recoil distance method. Other: 72 ps 13 using 265.63βγ(t) in 1972Fi12 . μ: From g=+0.29 4 using the transient-field integral PAC technique (1996St12). ωτ(2 ⁺)=160 mrad 10 and τ(2 ⁺)=93 ps 7 were used.
605.69 ^b 6	2 ⁺		A C	J ^π : 605.3γ E2 to 0 ⁺ .
670.97 [@] 6	4 ⁺	5.1 ps +15-11	A C	J ^π : 405.49γ E2 to 2 ⁺ ; band assignment.
798.75 8	0 ⁺		AB	XREF: B(800). J ^π : L(p,t)=0; 533.4γ E2 to 2 ⁺ and 799.2γ E0 to 0 ⁺ .
936.41 6	3 ⁺		A C	J ^π : 330.76γ E2(+M1) to 2 ⁺ ; 689.1γ E2 from 1 ⁺ .
1085.38 ^b 8	4 ⁺		A C	J ^π : 479.40γ E2 to 2 ⁺ , 414.79γ M1(+E2) to 4 ⁺ .
1115.22 5	2 ⁺		A C	XREF: C(1116.4). J ^π : 316.53γ to 0 ⁺ , 414.18γ E2 to 4 ⁺ .
1184.43 [@] 13	6 ⁺	1.53 ps 14	C	J ^π : 513.4γ E2 to 4 ⁺ ; band assignment.
1214.69 9	(2) ⁺		A	J ^π : 949.09γ E2(+M1) to 2 ⁺ , 1214.2γ to 0 ⁺ .
1312.73 6	2 ⁺		A	J ^π : 1312.62γ E2 to 0 ⁺ , 641.82γ (E2) to 4 ⁺ .
1349.99 6	3 ⁻		A C	J ^π : 679.13γ E1 to 4 ⁺ , 1084.33γ E1 to 2 ⁺ .
1443.7? 3			C	
1528.04 13	2 ⁺		A	J ^π : 857.0γ to 4 ⁺ , 1528.3γ to 0 ⁺ , 1262.46γ E0+M1+E2 to 2 ⁺ .
1565.60 ^d 13	5 ⁻		C	J ^π : 215.9γ E2 to 3 ⁻ , 381.1γ to 6 ⁺ .
1625.71 8	1 ⁺		A	J ^π : 1626.2γ M1 to 0 ⁺ , 689.1 E2 to 3 ⁺ .
1636.31 ^b 13	6 ⁺		C	J ^π : 550.9γ E2 to 4 ⁺ , 451.9γ to 6 ⁺ ; band assignment.
1674.53 22	(0 ⁺ ,1,2)		A	J ^π : 1408.92γ to 2 ⁺ ; probable direct population in ¹⁸⁸ Au ε decay (J ^π =(1 ⁻)).
1685.6 4	(0 ⁺ ,1,2)		A	J ^π : 1079.7γ to 2 ⁺ ; probable direct population in ¹⁸⁸ Au ε decay (J ^π =(1 ⁻)).
1768.15 ^d 16	7 ⁻	0.20 ns 2	C	J ^π : 202.6γ E2 to 5 ⁻ ; 583.7γ (E1) to 6 ⁺ ; band assignment. T _{1/2} : From 203ce(K)(t) in 1979Ri08 . Other: 0.621 ns 38 from 203ce(K)(t)

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Adopted Levels, Gammas (continued)

^{188}Pt Levels (continued)				
E(level) [†]	J^π [‡]	$T_{1/2}$ [#]	XREF	Comments
				in 1978Ti02 , but the line is weak and contaminations cannot be excluded (see 1978Ti02 for details). A long-lived component of 14 ns 2 was also reported to the 203ce(K) line in 1978Ti02 , but not in 1979Ri08 .
1776.08 7	(1 ⁻)		A	J^π : 426.5 γ (E2) to 3 ⁻ ; 977.27 γ (E1) to 0 ⁺ .
1782.23 [@] 19	8 ⁺	0.97 ps 14	C	J^π : 597.8 γ E2 to 6 ⁺ ; band assignment.
1810.57 9	(2) ⁺		A	J^π : 499.58 γ (E0+M1+E2) to 2 ⁺ ; 1139.7 γ to 4 ⁺ .
1954.26 14	(1 ⁺ ,2)		A	J^π : 1017.91 γ to 3 ⁺ ; probable direct population in ^{188}Au ε decay ($J^\pi=(1^-)$).
2171.4 4	(0 ⁺ ,1,2)		A	J^π : 1905.9 γ to 2 ⁺ ; probable direct population in ^{188}Au ε decay ($J^\pi=(1^-)$).
2179.75 ^c 23	8 ⁻		C	J^π : 411.6 γ M1+E2 to 7 ⁻ ; band assignment.
2210.2? 3			A	
2246.52 ^b 17	8 ⁺		C	J^π : 610.2 γ E2 to 6 ⁺ ; band assignment.
2295.61 12	(1,2) ⁺		A	J^π : 2295.48 γ to 0 ⁺ , 2030.02 γ to 2 ⁺ .
2312.45 ^d 21	9 ⁻		C	J^π : 544.3 γ E2 to 7 ⁻ ; band assignment.
2437.13 [@] 23	10 ⁺	0.49 ps +28-21	C	J^π : 654.9 γ to 8 ⁺ ; band assignment.
2446.89 22	(1,2) ⁺		A	J^π : 2446.87 γ to 0 ⁺ ; probable direct population in ^{188}Au ε decay ($J^\pi=(1^-)$).
2458.05 ^e 22	9 ⁻	\approx 0.66 ns	C	J^π : 689.3 γ E2 to 7 ⁻ ; band assignment. $T_{1/2}$: From 1979Ri08 , where a delayed component is observed for the electron line associated with the 689-keV γ ray.
2468.4? 5	(1,2) ⁺		A	J^π : 1669.6 γ to 0 ⁺ ; probable direct population in ^{188}Au ε decay ($J^\pi=(1^-)$).
2497.50 13			A	
2524.65? 19			A	
2588.6? 3			A	
2620.2 3	(8 ⁺)		C	J^π : 838.0 γ (E2) to 8 ⁺ . Assigned $J^\pi=(9^+)$ in 1988KaZW , but no value was given in 1979DaZN . The relatively lower population of this level, compared to the 10 ⁺ level at 2664 keV, would be consistent with $J^\pi=8^+$. The alternative $J^\pi=6^+$ assignment can be excluded since such a level won't be populated in (HI,xn γ).
2651.25 ^c 24	10 ⁻		C	J^π : 338.8 γ M1+E2 to 9 ⁻ , 471.5 γ E2 to 8 ⁻ ; band assignment.
2663.63 ^b 21	10 ⁺		C	J^π : 417.1 γ E2 to 8 ⁺ , 226.5 γ to 10 ⁺ ; band assignment.
2701.35 ^e 25	10 ⁻		C	J^π : 243.3 γ (M1+E2) to 9 ⁻ ; band assignment.
2702.03 24	10 ⁺		C	J^π : 919.8 γ E2 to 8 ⁺ .
2772.6 ^d 3	11 ⁻		C	J^π : 460.2 γ E2 to 9 ⁻ ; band assignment.
2798.1? 5			A	
2810.13 ^{&} 23	12 ⁺	0.66 ns 4	C	J^π : 108.1 γ E2 to 10 ⁺ . $T_{1/2}$: From 108-, 147- and 373ce(K)(t) in 1979Ri08 . configuration: $\nu(i_{13/2}^{-2})$ rotational-aligned state. The proposed shape isomer interpretation in 2014Mu12 seems to be incorrect. It is based on the observed reduced B(E2) values from 2002Si10 and comparison with Cranked-model calculations, but the values quoted in 2002Si10 are incorrect. See 2015Ko14 for detailed interpretation.
2875.1 ^a 3	(11 ⁺)		C	J^π : 173.1 γ (M1) to 10 ⁺ .
2909.6? 3	(2 ⁺)		A	J^π : probable E0 admixture in 1596.9 γ to 2 ⁺ ; direct population in ^{188}Au ε decay ($J^\pi=(1^-)$).
2960.3 ^e 3	11 ⁻		C	J^π : 502.3 γ E2 to 9 ⁻ ; band assignment.
3046.73 14			A	
3102.4 ^c 3	12 ⁻		C	J^π : 329.8 γ to 11 ⁻ , 451.2 γ E2 to 10 ⁻ ; band assignment.
3103.6 [@] 3	12 ⁺	<0.42 ps	C	J^π : 666.5 γ E2 to 10 ⁺ ; band assignment.
3139.0 ^{&} 3	14 ⁺		C	J^π : 328.9 γ E2 to 12 ⁺ ; band assignment.
3182.0 3	12 ⁺		C	J^π : 744.9 γ E2 to 10 ⁺ .

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

E(level) [†]	J^π [‡]	XREF	Comments
3226.6 ^e 3	12 ⁻	C	J^π : 525.3 γ E2 to 10 ⁻ ; band assignment.
3232.49 17		A	
3260.66 18		A	
3261.3 ^a 4	(13 ⁺)	C	J^π : 386.2 γ (E2) to (11 ⁺); band assignment.
3325.1 ^d 4	13 ⁻	C	J^π : 552.5 γ E2 to 11 ⁻ ; band assignment.
3565.0 ^e 4	13 ⁻	C	J^π : 604.6 γ E2 to 11 ⁻ ; band assignment.
3580.5 [@] 3	14 ⁺	C	J^π : 476.9 γ E2 to 12 ⁺ ; band assignment.
3625.8 ^c 4	14 ⁻	C	J^π : 523.3 γ E2 to 12 ⁻ ; band assignment.
3627.0 ^{&} 4	16 ⁺	C	J^π : 488.0 γ E2 to 14 ⁺ ; band assignment.
3749.6 ^a 4	(15 ⁺)	C	J^π : 488.3 γ to (13 ⁺); band assignment.
3867.2 ^e 4	14 ⁻	C	J^π : 640.5 γ E2 to 12 ⁻ ; band assignment.
3946.6 ^d 4	15 ⁻	C	J^π : 621.4 γ E2 to 13 ⁻ ; band assignment.
4007.6 [@] 4	16 ⁺	C	J^π : 427.1 γ E2 to 14 ⁺ ; band assignment.
4174.5 ^c 4	16 ⁻	C	J^π : 548.7 γ to 14 ⁻ ; band assignment.
4237.8 ^e 4	15 ⁻	C	J^π : 672.8 γ E2 to 13 ⁻ ; band assignment.
4243.8 ^{&} 4	18 ⁺	C	J^π : 616.8 γ E2 to 16 ⁺ ; band assignment.
4280.5 ^f 4	(17 ⁻)	C	J^π : 333.9 γ (E2) to 15 ⁻ ; band assignment.
4353.2 ^a 4	(17 ⁺)	C	J^π : 603.6 γ to (15 ⁺); band assignment.
4478.8 [@] 6	(18 ⁺)	C	J^π : 471.2 γ to 16 ⁺ ; band assignment.
4549.7 ^e 7	(16 ⁻)	C	J^π : 682.5 γ (E2) to 14 ⁻ ; band assignment.
4593.4 ^f 4	(18 ⁻)	C	J^π : 312.9 γ to (17 ⁻); band assignment.
4665.4 ^d 4	(17 ⁻)	C	J^π : 718.8 γ to 15 ⁻ ; band assignment.
4765.4 ^c 7	(18 ⁻)	C	J^π : 590.9 γ to 16 ⁻ ; band assignment.
4947.6 ^f 5	(19 ⁻)	C	J^π : 354.2 γ to (18 ⁻); band assignment.
4960.7 ^{&} 5	20 ⁺	C	J^π : 716.9 γ E2 to 18 ⁺ ; band assignment.
5201.3 ^g 6		C	
5505.2 ^g 6		C	
5744.9 ^{&} 7	(22 ⁺)	C	J^π : 784.2 γ to 20 ⁺ ; band assignment.
6549.9 ^{&} 9	(24 ⁺)	C	J^π : 805.0 γ to (22 ⁺); band assignment.
7367.9 ^{&} 10	(26 ⁺)	C	J^π : 818.0 γ to (24 ⁺); band assignment.

[†] From least-squares fit to E γ 's.

[‡] From deduced transition multipolarities and band structures.

[#] From 2017Ro07 in (HI,xn γ), using the recoil distance doppler shift method, unless otherwise stated.

[@] Band(A): $K^\pi=0^+$, ground-state band.

[&] Band(B): Band based on the 2810.13-keV level, associated with a pair of $i_{13/2}$ neutrons ($\alpha=0$).

^a Band(C): Band based on the 2875.1-keV level, associated with a pair of $i_{13/2}$ neutrons ($\alpha=1$).

^b Band(D): $K^\pi=2^+$, gamma-vibrational band.

^c Band(E): Band based on the 2179.75-keV level ($\alpha=0$). Probably a mixture of several bands within the $\nu^2(9/2[624],1/2[510])$ and $\nu^2(9/2[624],3/2[512])$ configurations (by the evaluators).

^d Band(F): Band based on the 1768.15-keV level ($\alpha=1$). Probably a mixture of several bands within the $\nu^2(9/2[624],1/2[510])$ and $\nu^2(9/2[624],3/2[512])$ configurations (by the evaluators).

^e Band(G): $K^\pi=9^-$, $\nu^2(9/2[624],9/2[505])$ band.

^f Band(H): Band based on the 4280.5-keV level.

^g Band(I): Band based on the 5201.3-keV level.

Adopted Levels, Gammas (continued)

$E_i(\text{level})$	J_i^π	$\gamma(^{188}\text{Pt})$		E_f	J_f^π	Mult.#	$\alpha^@$	Comments
		E_γ^\dagger	I_γ^\dagger					
265.61	2 ⁺	265.63 [‡] 6	100 [‡]	0.0	0 ⁺	E2	0.1425	$\alpha(\text{K})=0.0829$ 12; $\alpha(\text{L})=0.0451$ 7; $\alpha(\text{M})=0.01137$ 16 $\alpha(\text{N})=0.00278$ 4; $\alpha(\text{O})=0.000450$ 7; $\alpha(\text{P})=8.21\times 10^{-6}$ 12 B(E2)(W.u.)=89 4 Mult.: From $\text{K/L1}=7.4$ 14, $\text{L1/L2}=0.44$ 9, $\text{L1/L3}=0.77$ 17 (1970Jo02), $\text{K/L3}=5.8$ 7 and $\alpha(\text{L3})\text{exp}=0.0143$ 7 (1972Fi12); $\text{K/L}=2.4$, $\alpha(\text{L})\text{exp}=0.032$ (1971Hu02); DCO=1.13 3 and POL=0.11 3 (2017Mu12); $\text{K/L}\approx 2$ (1979Ri08); $\text{A}_2=0.216$ 9, $\text{A}_4=-0.030$ 11 (1967Ne02); $\text{A}_2=0.16$ 4, $\text{A}_4=-0.08$ 5 (1988KaZW); $\text{A}_2=0.21$ 2, $\text{A}_4=-0.05$ 3 (1979DaZN).
605.69	2 ⁺	340.04 [‡] 5	100 [‡] 4	265.61	2 ⁺	E2(+M1)	0.218	$\alpha(\text{K})=0.180$ 3; $\alpha(\text{L})=0.0292$ 4; $\alpha(\text{M})=0.00674$ 10 $\alpha(\text{N})=0.001668$ 24; $\alpha(\text{O})=0.000300$ 5; $\alpha(\text{P})=2.03\times 10^{-5}$ 3 Mult.: From $\alpha(\text{L3})\text{exp}=0.0060$ 4 (1972Fi12). Others: $\alpha(\text{K})\text{exp}=0.055$ 5 (1970Jo02) and $\text{K/M}=13.9$, $\alpha(\text{K})\text{exp}=0.055$, $\alpha(\text{L})\text{exp}=0.004$ (1971Hu02). However, 1972Fi12 pointed out that $\text{ce}(\text{K})(340\gamma)$ is complex. DCO=1.02 10 and POL=-0.05 9 (2017Mu12).
		605.3 [‡] 2	68.2 [‡] 25	0.0	0 ⁺	E2	0.01578	$\alpha(\text{K})=0.01208$ 17; $\alpha(\text{L})=0.00282$ 4; $\alpha(\text{M})=0.000677$ 10 $\alpha(\text{N})=0.0001667$ 24; $\alpha(\text{O})=2.85\times 10^{-5}$ 4; $\alpha(\text{P})=1.279\times 10^{-6}$ 18 Mult.: From $\alpha(\text{K})\text{exp}=0.0114$ 4 (1972Fi12); $\alpha(\text{K})\text{exp}=0.009$ (1971Hu02). DCO=1.10 3 and POL=0.11 5 (2017Mu12); $\text{A}_2=0.24$ 5, $\text{A}_4=-0.08$ 5 (1988KaZW); $\text{A}_2=0.23$ 6, $\text{A}_4=-0.03$ 8 (1979DaZN).
670.97	4 ⁺	405.49 [‡] 5	100 [‡]	265.61	2 ⁺	E2	0.0422	$\alpha(\text{K})=0.0295$ 5; $\alpha(\text{L})=0.00967$ 14; $\alpha(\text{M})=0.00238$ 4 $\alpha(\text{N})=0.000584$ 9; $\alpha(\text{O})=9.73\times 10^{-5}$ 14; $\alpha(\text{P})=3.06\times 10^{-6}$ 5 B(E2)(W.u.)= 1.5×10^2 +4-5 Mult.: From $\alpha(\text{L3})\text{exp}=0.0023$ 3 (1972Fi12). Also $\alpha(\text{M})\text{exp}=0.0027$ 5 (1972Fi12), but the authors pointed out that this line is complex in ce data. DCO=1.02 2 and POL=0.12 2 (2017Mu12); $\text{A}_2=0.270$ 13, $\text{A}_4=-0.044$ 14 (1967Ne02); $\text{A}_2=0.23$ 4, $\text{A}_4=-0.07$ 5 (1988KaZW); $\text{A}_2=0.26$ 2, $\text{A}_4=-0.07$ 3 (1979DaZN).
798.75	0 ⁺	192.89 [‡] 19 533.4 [‡] 3	2.9 [‡] 7 100 [‡] 4	605.69 265.61	2 ⁺ 2 ⁺	E2	0.0212	$\alpha(\text{K})=0.01585$ 23; $\alpha(\text{L})=0.00407$ 6; $\alpha(\text{M})=0.000983$ 14 $\alpha(\text{N})=0.000242$ 4; $\alpha(\text{O})=4.10\times 10^{-5}$ 6; $\alpha(\text{P})=1.672\times 10^{-6}$ 24 Mult.: From $\alpha(\text{L})\text{exp}=0.0039$ 4 (1972Fi12); $\alpha(\text{K})\text{exp}=0.014$ (1971Hu02). E_γ : From ^{188}Au ε decay. Mult.: From $\alpha(\text{K})\text{exp}\geq 1.3$ (1972Fi12); $\alpha(\text{K})\text{exp}\geq 2$ (1971Hu02).
		799.2 5		0.0	0 ⁺	E0		
936.41	3 ⁺	330.76 [‡] 5	62.3 [‡] 24	605.69	2 ⁺	E2(+M1)	0.234	$\alpha(\text{K})=0.193$ 3; $\alpha(\text{L})=0.0315$ 5; $\alpha(\text{M})=0.00727$ 11 $\alpha(\text{N})=0.00180$ 3; $\alpha(\text{O})=0.000324$ 5; $\alpha(\text{P})=2.19\times 10^{-5}$ 3 I_γ : Other: 95 10 in (HI,xn γ). Mult.: From $\alpha(\text{L3})\text{exp}=0.0055$ 7 (1972Fi12). $\text{A}_2=-0.08$ 5, $\text{A}_4=0.08$ 5 (1988KaZW).
		670.83 [‡] 5	100 [‡] 4	265.61	2 ⁺	M1(+E2)	0.0363	$\alpha(\text{K})=0.0301$ 5; $\alpha(\text{L})=0.00479$ 7; $\alpha(\text{M})=0.001102$ 16 $\alpha(\text{N})=0.000273$ 4; $\alpha(\text{O})=4.91\times 10^{-5}$ 7; $\alpha(\text{P})=3.35\times 10^{-6}$ 5 Mult.: From $\text{A}_2=0.02$ 5, $\text{A}_4=-0.06$ 6 (1988KaZW).
1085.38	4 ⁺	414.79 [‡] 10	70 [‡] 8	670.97	4 ⁺	M1(+E2)	0.1277	$\alpha(\text{K})=0.1056$ 15; $\alpha(\text{L})=0.01708$ 24; $\alpha(\text{M})=0.00394$ 6

Adopted Levels, Gammas (continued)

$\gamma(^{188}\text{Pt})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha^@$	Comments
								$\alpha(\text{N})=0.000974$ 14; $\alpha(\text{O})=0.0001755$ 25; $\alpha(\text{P})=1.190\times 10^{-5}$ 17 I_γ : Other: 40.2 16 in (HI,xny). Mult.: From $\alpha(\text{K})_{\text{exp}}=0.078$ 11 (1972Fi12) for 413.3 γ +414.79 γ . $A_2=-0.06$ 5, $A_4=-0.07$ 5 (1988KaZW); $A_2=-0.22$ 12, $A_4=-0.03$ 16 (1979DaZN).
1085.38	4 ⁺	479.40 [‡] 9	100 [‡] 10	605.69	2 ⁺	E2	0.0275	$\alpha(\text{K})=0.0201$ 3; $\alpha(\text{L})=0.00563$ 8; $\alpha(\text{M})=0.001370$ 20 $\alpha(\text{N})=0.000337$ 5; $\alpha(\text{O})=5.67\times 10^{-5}$ 8; $\alpha(\text{P})=2.11\times 10^{-6}$ 3 Mult.: From $\alpha(\text{L})_{\text{exp}}=0.0057$ 10 (1972Fi12). DCO=1.17 7 and POL=0.09 5 (2017Mu12); $A_2=0.26$ 5, $A_4=-0.07$ 5 (1988KaZW); $A_2=0.43$ 14, $A_4=0.08$ 17 (1979DaZN).
		819.4 [‡] 4	27 [‡] 9	265.61	2 ⁺	E2	0.00819	$\alpha(\text{K})=0.00652$ 10; $\alpha(\text{L})=0.001277$ 18; $\alpha(\text{M})=0.000301$ 5 $\alpha(\text{N})=7.42\times 10^{-5}$ 11; $\alpha(\text{O})=1.295\times 10^{-5}$ 19; $\alpha(\text{P})=6.90\times 10^{-7}$ 10 Mult.: From $A_2=0.20$ 5, $A_4=0.09$ 6 (1988KaZW).
1115.22	2 ⁺	316.53 [‡] 9	19 [‡] 2	798.75	0 ⁺	[E2]	0.0841	$\alpha(\text{K})=0.0535$ 8; $\alpha(\text{L})=0.0232$ 4; $\alpha(\text{M})=0.00579$ 9 $\alpha(\text{N})=0.001418$ 20; $\alpha(\text{O})=0.000232$ 4; $\alpha(\text{P})=5.42\times 10^{-6}$ 8
		444.18 [‡] 8	21.7 [‡] 18	670.97	4 ⁺	E2	0.0333	$\alpha(\text{K})=0.0239$ 4; $\alpha(\text{L})=0.00717$ 10; $\alpha(\text{M})=0.001754$ 25 $\alpha(\text{N})=0.000431$ 6; $\alpha(\text{O})=7.22\times 10^{-5}$ 11; $\alpha(\text{P})=2.50\times 10^{-6}$ 4 Mult.: From $\alpha(\text{K})_{\text{exp}}=0.023$ 2, $\alpha(\text{L3})_{\text{exp}}=0.0066$ 25, $\alpha(\text{M})_{\text{exp}}=0.0050$ 18 (1972Fi12). Authors' $\alpha(\text{L3})_{\text{exp}}$ agrees with $\alpha(\text{L})$ rather than with $\alpha(\text{L3})$. Ice(L3) given by 1972Fi12 should possibly be interpreted as Ice(L).
		849.3 [‡] 6	14 [‡] 5	265.61	2 ⁺	E0+M1+E2	0.27 1	$\alpha(\text{K})=0.01644$ 24; $\alpha(\text{L})=0.00260$ 4; $\alpha(\text{M})=0.000598$ 9 $\alpha(\text{N})=0.0001479$ 21; $\alpha(\text{O})=2.67\times 10^{-5}$ 4; $\alpha(\text{P})=1.83\times 10^{-6}$ 3 E_γ : 850.9 3 in (HI,xny). Mult.: From $\alpha(\text{K})_{\text{exp}}=0.22$ 1, $\alpha(\text{L})_{\text{exp}}=0.038$ 2, and $\alpha(\text{M})_{\text{exp}}=0.0098$ 20 (1972Fi12). $A_2=-0.63$ 5, $A_4=0.19$ 5 (1988KaZW). δ : -1.1 +20-2 from $\gamma(\theta)$ (1988KaZW). α : 0.27 1, deduced from $\alpha(\text{K})_{\text{exp}} + \alpha(\text{L})_{\text{exp}} + \alpha(\text{M})_{\text{exp}}$ in 1972Fi12.
		1115.25 [‡] 5	100 [‡] 4	0.0	0 ⁺	(E2)	0.00442	$\alpha(\text{K})=0.00361$ 5; $\alpha(\text{L})=0.000627$ 9; $\alpha(\text{M})=0.0001458$ 21 $\alpha(\text{N})=3.60\times 10^{-5}$ 5; $\alpha(\text{O})=6.36\times 10^{-6}$ 9; $\alpha(\text{P})=3.79\times 10^{-7}$ 6; $\alpha(\text{IPF})=3.24\times 10^{-7}$ 5 Mult.: From $\alpha(\text{K})_{\text{exp}}\approx 0.002$ (1972Fi12).
1184.43	6 ⁺	513.4 2	100	670.97	4 ⁺	E2	0.0232	$\alpha(\text{K})=0.01723$ 25; $\alpha(\text{L})=0.00456$ 7; $\alpha(\text{M})=0.001105$ 16 $\alpha(\text{N})=0.000272$ 4; $\alpha(\text{O})=4.60\times 10^{-5}$ 7; $\alpha(\text{P})=1.82\times 10^{-6}$ 3 B(E2)(W.u.)=158 15 Mult.: DCO=0.95 5 and POL=0.10 4 (2017Mu12); $A_2=0.187$ 22, $A_4=-0.078$ 25 (1967Ne02); $A_2=0.23$ 4, $A_4=-0.07$ 5 (1988KaZW); $A_2=0.24$ 3, $A_4=-0.08$ 4 (1979DaZN).
1214.69	(2) ⁺	949.09 [‡] 8	100 [‡] 7	265.61	2 ⁺	E2(+M1)	0.01494	$\alpha(\text{K})=0.01240$ 18; $\alpha(\text{L})=0.00195$ 3; $\alpha(\text{M})=0.000449$ 7 $\alpha(\text{N})=0.0001111$ 16; $\alpha(\text{O})=2.00\times 10^{-5}$ 3; $\alpha(\text{P})=1.375\times 10^{-6}$ 20 Mult.: From $\alpha(\text{K})_{\text{exp}}=0.0046$ 5 (1972Fi12).
		1214.2 [‡] 5	19.7 [‡] 12	0.0	0 ⁺			Mult.: $\alpha(\text{K})_{\text{exp}}\approx 0.085$ (1972Fi12) indicates E0 mixture, implying a probable doublet in ce data.

Adopted Levels, Gammas (continued)

								$\gamma(^{188}\text{Pt})$ (continued)				
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha^@$	Comments				
1312.73	2 ⁺	198.1 ^{±3} 3	7.1 ^{±24} 24	1115.22	2 ⁺	E2+M1	0.1652	$\alpha(\text{K})=0.1364$ 20; $\alpha(\text{L})=0.0221$ 4; $\alpha(\text{M})=0.00511$ 8 $\alpha(\text{N})=0.001263$ 18; $\alpha(\text{O})=0.000227$ 4; $\alpha(\text{P})=1.542\times 10^{-5}$ 22 Mult.: From $\alpha(\text{K})\text{exp}=0.074$ 7, $\alpha(\text{L})\text{exp}\approx 0.040$ (1972Fi12).				
		376.70 ^{±15} 15	17 ^{±3} 3	936.41	3 ⁺							
		641.82 ^{±18} 18	22 ^{±4} 4	670.97	4 ⁺ (E2)						0.01383	$\alpha(\text{K})=0.01069$ 15; $\alpha(\text{L})=0.00240$ 4; $\alpha(\text{M})=0.000574$ 8 $\alpha(\text{N})=0.0001413$ 20; $\alpha(\text{O})=2.43\times 10^{-5}$ 4; $\alpha(\text{P})=1.132\times 10^{-6}$ 16 Mult.: From $\alpha(\text{K})\text{exp}=0.0071$ 26 (1972Fi12).
		707.08 ^{±14} 14	31 ^{±4} 4	605.69	2 ⁺ E0+M1+E2						0.076 5	$\alpha(\text{K})=0.0263$ 4; $\alpha(\text{L})=0.00418$ 6; $\alpha(\text{M})=0.000961$ 14 $\alpha(\text{N})=0.000238$ 4; $\alpha(\text{O})=4.29\times 10^{-5}$ 6; $\alpha(\text{P})=2.93\times 10^{-6}$ 5 Mult.: From $\alpha(\text{K})\text{exp}=0.061$ 3 and $\alpha(\text{L})\text{exp}=0.011$ 2 (1972Fi12) indicate E0 admixtures. α : 0.076 5 deduced from $\alpha(\text{K})\text{exp} + \alpha(\text{L})\text{exp} \times (1 + \text{M/L} + \text{N/L})$.
		1046.99 ^{±11} 11	65 ^{±7} 7	265.61	2 ⁺ E0+M1+E2						0.076 3	$\alpha(\text{K})=0.00968$ 14; $\alpha(\text{L})=0.001521$ 22; $\alpha(\text{M})=0.000349$ 5 $\alpha(\text{N})=8.64\times 10^{-5}$ 13; $\alpha(\text{O})=1.559\times 10^{-5}$ 22; $\alpha(\text{P})=1.072\times 10^{-6}$ 15 Mult.: From $\alpha(\text{K})\text{exp}=0.065$ 2, $\alpha(\text{L})\text{exp}=0.0075$ 8 (1972Fi12) indicate E0 admixtures. α : 0.076 3 deduced from $\alpha(\text{K})\text{exp} + \alpha(\text{L})\text{exp} \times (1 + \text{M/L} + \text{N/L})$.
1312.62 ^{±9} 9	100 ^{±7} 7	0.0	0 ⁺ E2	0.00326	$\alpha(\text{K})=0.00266$ 4; $\alpha(\text{L})=0.000442$ 7; $\alpha(\text{M})=0.0001024$ 15 $\alpha(\text{N})=2.53\times 10^{-5}$ 4; $\alpha(\text{O})=4.49\times 10^{-6}$ 7; $\alpha(\text{P})=2.79\times 10^{-7}$ 4; $\alpha(\text{IPF})=1.87\times 10^{-5}$ 3 Mult.: $\alpha(\text{K})\text{exp}=0.0029$ 4 (1972Fi12).							
1349.99	3 ⁻	234.8 ^{±3} 3	3.6 ^{±11} 11	1115.22	2 ⁺	E1	0.00441	$\alpha(\text{K})=0.00369$ 6; $\alpha(\text{L})=0.000556$ 8; $\alpha(\text{M})=0.0001270$ 18 $\alpha(\text{N})=3.13\times 10^{-5}$ 5; $\alpha(\text{O})=5.56\times 10^{-6}$ 8; $\alpha(\text{P})=3.57\times 10^{-7}$ 5 Mult.: from $\alpha(\text{K})\text{exp}\leq 0.0036$ (1972Fi12).				
		413.3 ^{±5} 5	7.7 ^{±5} 5	936.41	3 ⁺							
		679.13 ^{±6} 6	30.5 ^{±18} 18	670.97	4 ⁺	E1	0.00183	$\alpha(\text{K})=0.001539$ 22; $\alpha(\text{L})=0.000225$ 4; $\alpha(\text{M})=5.12\times 10^{-5}$ 8 $\alpha(\text{N})=1.262\times 10^{-5}$ 18; $\alpha(\text{O})=2.26\times 10^{-6}$ 4; $\alpha(\text{P})=1.514\times 10^{-7}$ 22 Mult.: from $\alpha(\text{K})\text{exp}\leq 0.0015$ (1972Fi12).				
1443.7?		507.3 3	100	936.41	3 ⁺			E_γ, I_γ : from (p,4n γ) data (1977Nu03). $I_\gamma(507\gamma)/I_\gamma(266\gamma)=0.102$ 5.				
1528.04	2 ⁺	591.4 ^{±5} 5	11.9 ^{±16} 16	936.41	3 ⁺ (M1)		0.0503	$\alpha(\text{K})=0.0416$ 6; $\alpha(\text{L})=0.00666$ 10; $\alpha(\text{M})=0.001534$ 22 $\alpha(\text{N})=0.000379$ 6; $\alpha(\text{O})=6.84\times 10^{-5}$ 10; $\alpha(\text{P})=4.66\times 10^{-6}$ 7 Mult.: from $\alpha(\text{K})\text{exp}\approx 0.056$ (1972Fi12).				
		857.0 ^{±5} 5	8.7 ^{±16} 16	670.97	4 ⁺			$\alpha(\text{K})=0.01334$ 19; $\alpha(\text{L})=0.00210$ 3; $\alpha(\text{M})=0.000484$ 7 $\alpha(\text{N})=0.0001196$ 17; $\alpha(\text{O})=2.16\times 10^{-5}$ 3; $\alpha(\text{P})=1.480\times 10^{-6}$ 21 Mult.: from $\alpha(\text{K})\text{exp}=0.024$ 2 (1972Fi12). α : 0.029 3 from K/T and $\alpha(\text{K})\text{exp}$.				
		922.23 ^{±18} 18	69 ^{±10} 10	605.69	2 ⁺ E0+M1+E2	0.029 3						
1262.46 ^{±19} 19		100 ^{±14} 14		265.61	2 ⁺ E0+M1+E2		0.037 4	$\alpha(\text{K})=0.00605$ 9; $\alpha(\text{L})=0.000945$ 14; $\alpha(\text{M})=0.000217$ 3 $\alpha(\text{N})=5.37\times 10^{-5}$ 8; $\alpha(\text{O})=9.69\times 10^{-6}$ 14; $\alpha(\text{P})=6.68\times 10^{-7}$ 10;				

Adopted Levels, Gammas (continued)

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

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha^@$	Comments
								$\alpha(\text{IPF})=1.746 \times 10^{-5}$ 25 Mult.: from $\alpha(\text{K})_{\text{exp}}=0.031$ 3 (1972Fi12). α : 0.037 4 from K/T and $\alpha(\text{K})_{\text{exp}}$.
1528.04	2 ⁺	1528.3 \ddagger 3	57 \ddagger 12	0.0	0 ⁺			
1565.60	5 ⁻	215.9 2	9.6 9	1349.99	3 ⁻	E2	0.278	$\alpha(\text{K})=0.1401$ 20; $\alpha(\text{L})=0.1037$ 15; $\alpha(\text{M})=0.0264$ 4 $\alpha(\text{N})=0.00645$ 10; $\alpha(\text{O})=0.001031$ 15; $\alpha(\text{P})=1.350 \times 10^{-5}$ 20 Mult.: DCO=1.14 9 (2017Mu12); $A_2=0.32$ 11, $A_4=0.01$ 14 (1979DaZN). $A_2=0.29$ 5, $A_4=0.38$ 6 (1988KaZW).
		381.1 2	9.1 14	1184.43	6 ⁺	(E1)	0.00901	$\alpha(\text{K})=0.00751$ 11; $\alpha(\text{L})=0.001161$ 17; $\alpha(\text{M})=0.000266$ 4 $\alpha(\text{N})=6.54 \times 10^{-5}$ 10; $\alpha(\text{O})=1.157 \times 10^{-5}$ 17; $\alpha(\text{P})=7.14 \times 10^{-7}$ 11 Mult.: From $A_2=-0.36$ 5, $A_4=0.12$ 5 (1988KaZW); $A_2=-0.22$ 18, $A_4=0.05$ 24 (1979DaZN).
		480.1 5	20.9 9	1085.38	4 ⁺	(E1)	0.00260	$\alpha(\text{K})=0.00218$ 3; $\alpha(\text{L})=0.000323$ 5; $\alpha(\text{M})=7.36 \times 10^{-5}$ 11 $\alpha(\text{N})=1.81 \times 10^{-5}$ 3; $\alpha(\text{O})=3.24 \times 10^{-6}$ 5; $\alpha(\text{P})=2.14 \times 10^{-7}$ 3 Mult.: DCO=0.49 2 and POL=0.12 3 (2017Mu12); $A_2=-0.30$ 5, $A_4=0.06$ 5 (1988KaZW); $A_2=-0.20$ 2, $A_4=0.07$ 3 (1979DaZN).
		894.5 2	100 5	670.97	4 ⁺	(E1)	0.00260	$\alpha(\text{K})=0.00218$ 3; $\alpha(\text{L})=0.000323$ 5; $\alpha(\text{M})=7.36 \times 10^{-5}$ 11 $\alpha(\text{N})=1.81 \times 10^{-5}$ 3; $\alpha(\text{O})=3.24 \times 10^{-6}$ 5; $\alpha(\text{P})=2.14 \times 10^{-7}$ 3 Mult.: DCO=0.49 2 and POL=0.12 3 (2017Mu12); $A_2=-0.30$ 5, $A_4=0.06$ 5 (1988KaZW); $A_2=-0.20$ 2, $A_4=0.07$ 3 (1979DaZN).
1625.71	1 ⁺	313.0 \ddagger 5	3.9 \ddagger 5	1312.73	2 ⁺			
		689.1 \ddagger 3	9 \ddagger 3	936.41	3 ⁺	E2	0.01182	$\alpha(\text{K})=0.00923$ 13; $\alpha(\text{L})=0.00198$ 3; $\alpha(\text{M})=0.000472$ 7 $\alpha(\text{N})=0.0001163$ 17; $\alpha(\text{O})=2.01 \times 10^{-5}$ 3; $\alpha(\text{P})=9.77 \times 10^{-7}$ 14 Mult.: from $\alpha(\text{K})_{\text{exp}}=0.010$ 3 (1972Fi12).
		1020.1 \ddagger 4	19 \ddagger 5	605.69	2 ⁺			
		1360.10 \ddagger 7	100 \ddagger 5	265.61	2 ⁺			
		1626.2 \ddagger 8	22 \ddagger 14	0.0	0 ⁺	M1	0.00404	$\alpha(\text{K})=0.00322$ 5; $\alpha(\text{L})=0.000500$ 7; $\alpha(\text{M})=0.0001146$ 17 $\alpha(\text{N})=2.84 \times 10^{-5}$ 4; $\alpha(\text{O})=5.12 \times 10^{-6}$ 8; $\alpha(\text{P})=3.54 \times 10^{-7}$ 5; $\alpha(\text{IPF})=0.0001678$ 24 Mult.: from $\alpha(\text{K})_{\text{exp}}=0.0054$ 18 (1972Fi12).
1636.31	6 ⁺	451.9 2	42 4	1184.43	6 ⁺			
		550.9 2	100 8	1085.38	4 ⁺	E2	0.0196	$\alpha(\text{K})=0.01477$ 21; $\alpha(\text{L})=0.00370$ 6; $\alpha(\text{M})=0.000892$ 13 $\alpha(\text{N})=0.000219$ 3; $\alpha(\text{O})=3.73 \times 10^{-5}$ 6; $\alpha(\text{P})=1.561 \times 10^{-6}$ 22 Mult.: $A_2=0.27$ 5, $A_4=-0.08$ 5 (1988KaZW); $A_2=0.26$ 4, $A_4=-0.12$ 5 (1979DaZN).
		965.3 2	24 5	670.97	4 ⁺			
1674.53	(0 ⁺ ,1,2)	1408.92 \ddagger 21	100 \ddagger	265.61	2 ⁺			
1685.6	(0 ⁺ ,1,2)	471.1 \ddagger 5	61 \ddagger 33	1214.69	(2) ⁺			
		1079.7 \ddagger 5	100 \ddagger 42	605.69	2 ⁺			
1768.15	7 ⁻	131.8 2	6.1 10	1636.31	6 ⁺	(E1)	0.202	$\alpha(\text{K})=0.1639$ 24; $\alpha(\text{L})=0.0291$ 5; $\alpha(\text{M})=0.00673$ 10 $\alpha(\text{N})=0.001641$ 24; $\alpha(\text{O})=0.000279$ 4; $\alpha(\text{P})=1.348 \times 10^{-5}$ 20 B(E1)(W.u.)=1.21 $\times 10^{-5}$ 24 Mult.: From $A_2=-0.16$ 5, $A_4=-0.10$ 5 (1988KaZW); $A_2=-0.15$ 12, $A_4=0.02$ 16 (1979DaZN).
		202.6 2	88 5	1565.60	5 ⁻	E2	0.344	$\alpha(\text{K})=0.1645$ 24; $\alpha(\text{L})=0.1351$ 20; $\alpha(\text{M})=0.0345$ 5

Adopted Levels, Gammas (continued)

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

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha^@$	Comments
								$\alpha(\text{N})=0.00842$ 13; $\alpha(\text{O})=0.001342$ 20; $\alpha(\text{P})=1.573\times 10^{-5}$ 23 B(E2)(W.u.)=50 7 Mult.: DCO=1.20 2 and POL=0.28 5 (2017Mu12); $A_2=0.28$ 5, $A_4=-0.11$ 6 (1988KaZW); $A_2=0.22$ 3, $A_4=-0.12$ 4 (1979DaZN).
1768.15	7 ⁻	583.7 2	100 5	1184.43	6 ⁺	(E1)	0.00598	$\alpha(\text{N})=4.28\times 10^{-5}$ 6; $\alpha(\text{O})=7.60\times 10^{-6}$ 11; $\alpha(\text{P})=4.80\times 10^{-7}$ 7 $\alpha(\text{K})=0.00500$ 7; $\alpha(\text{L})=0.000761$ 11; $\alpha(\text{M})=0.0001741$ 25 B(E1)(W.u.)=2.3 $\times 10^{-6}$ 3 Mult.: DCO=0.53 2 and POL=0.11 3 (2017Mu12); $A_2=-0.19$ 5, $A_4=0.03$ 5 (1988KaZW); $A_2=-0.15$ 3, $A_4=0.02$ 3 (1979DaZN).
1776.08	(1 ⁻)	426.5 $\frac{3}{2}$	12 $\frac{3}{2}$	1349.99	3 ⁻	(E2)	0.0370	$\alpha(\text{K})=0.0262$ 4; $\alpha(\text{L})=0.00818$ 12; $\alpha(\text{M})=0.00201$ 3 $\alpha(\text{N})=0.000493$ 7; $\alpha(\text{O})=8.23\times 10^{-5}$ 12; $\alpha(\text{P})=2.73\times 10^{-6}$ 4 Mult.: From $\alpha(\text{K})\text{exp}\approx 0.018$ (1972Fi12).
		977.27 $\frac{3}{2}$	75 $\frac{3}{2}$	798.75	0 ⁺	(E1)	0.00221	$\alpha(\text{K})=0.00186$ 3; $\alpha(\text{L})=0.000273$ 4; $\alpha(\text{M})=6.22\times 10^{-5}$ 9 $\alpha(\text{N})=1.532\times 10^{-5}$ 22; $\alpha(\text{O})=2.74\times 10^{-6}$ 4; $\alpha(\text{P})=1.82\times 10^{-7}$ 3 Mult.: From $\alpha(\text{K})\text{exp}=0.0032$ 9 (1972Fi12).
		1170.49 $\frac{3}{2}$	96 $\frac{3}{2}$	605.69	2 ⁺	(E1)	1.61 $\times 10^{-3}$	$\alpha(\text{K})=0.001344$ 19; $\alpha(\text{L})=0.000196$ 3; $\alpha(\text{M})=4.45\times 10^{-5}$ 7 $\alpha(\text{N})=1.098\times 10^{-5}$ 16; $\alpha(\text{O})=1.97\times 10^{-6}$ 3; $\alpha(\text{P})=1.325\times 10^{-7}$ 19; $\alpha(\text{IPF})=9.10\times 10^{-6}$ 13 Mult.: From $\alpha(\text{K})\text{exp}=0.0023$ 4 (1972Fi12).
		1510.38 $\frac{3}{2}$	100 $\frac{3}{2}$	265.61	2 ⁺	(E1)	1.21 $\times 10^{-3}$	$\alpha(\text{K})=0.000867$ 13; $\alpha(\text{L})=0.0001248$ 18; $\alpha(\text{M})=2.83\times 10^{-5}$ 4 $\alpha(\text{N})=6.99\times 10^{-6}$ 10; $\alpha(\text{O})=1.256\times 10^{-6}$ 18; $\alpha(\text{P})=8.58\times 10^{-8}$ 12; $\alpha(\text{IPF})=0.000185$ 3 Mult.: From $\alpha(\text{K})\text{exp}\leq 0.00077$ (1972Fi12).
1782.23	8 ⁺	597.8 2	100	1184.43	6 ⁺	E2	0.01623	$\alpha(\text{K})=0.01240$ 18; $\alpha(\text{L})=0.00292$ 5; $\alpha(\text{M})=0.000702$ 10 $\alpha(\text{N})=0.0001727$ 25; $\alpha(\text{O})=2.96\times 10^{-5}$ 5; $\alpha(\text{P})=1.312\times 10^{-6}$ 19 B(E2)(W.u.)=118 17 Mult.: DCO=0.95 5 and POL=0.12 6 (2017Mu12); $A_2=0.26$ 5, $A_4=-0.06$ 5 (1988KaZW); $A_2=0.27$ 3, $A_4=-0.09$ 3 (1979DaZN).
1810.57	(2 ⁺)	498.6 $\frac{3}{2}$	23 $\frac{3}{2}$	1312.73	2 ⁺	(E0+M1+E2)	0.225 14	$\alpha(\text{K})=0.0650$ 10; $\alpha(\text{L})=0.01045$ 15; $\alpha(\text{M})=0.00241$ 4 $\alpha(\text{N})=0.000596$ 9; $\alpha(\text{O})=0.0001073$ 16; $\alpha(\text{P})=7.30\times 10^{-6}$ 11 Mult.: From $\alpha(\text{K})\text{exp}=0.11$ 1 and $\alpha(\text{L})\text{exp}=0.089$ 8 (1972Fi12). α : 0.225 14 deduced from $\alpha(\text{K})\text{exp} + \alpha(\text{L})\text{exp} \times (1 + \text{M/L} + \text{N/L})$.
		695.4 $\frac{3}{2}$	8.2 $\frac{3}{2}$	1115.22	2 ⁺	M1(+E2)	0.0331	$\alpha(\text{K})=0.0274$ 4; $\alpha(\text{L})=0.00436$ 7; $\alpha(\text{M})=0.001004$ 15 $\alpha(\text{N})=0.000248$ 4; $\alpha(\text{O})=4.48\times 10^{-5}$ 7; $\alpha(\text{P})=3.06\times 10^{-6}$ 5 Mult.: From $\alpha(\text{K})\text{exp}=0.031$ 11 (1972Fi12).
		874.66 $\frac{3}{2}$	25 $\frac{3}{2}$	936.41	3 ⁺			
		1139.7 $\frac{3}{2}$	16 $\frac{3}{2}$	670.97	4 ⁺			
		1204.60 $\frac{3}{2}$	70 $\frac{3}{2}$	605.69	2 ⁺			
		1545.00 $\frac{3}{2}$	100 $\frac{3}{2}$	265.61	2 ⁺			

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Adopted Levels, Gammas (continued)

$\gamma(^{188}\text{Pt})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha^@$	Comments
1954.26	(1 ⁺ ,2)	1017.91 [‡] 18 1348.50 [‡] 19	100 [‡] 14 69 [‡] 10	936.41 605.69	3 ⁺ 2 ⁺			
2171.4	(0 ⁺ ,1,2)	1565.6 [‡] 5	63 [‡] 23	605.69	2 ⁺			
2179.75	8 ⁻	1905.9 [‡] 4 411.6 2	100 [‡] 26 100	265.61 1768.15	2 ⁺ 7 ⁻	M1+E2	0.1304	$\alpha(\text{K})=0.1077$ 16; $\alpha(\text{L})=0.01744$ 25; $\alpha(\text{M})=0.00402$ 6 $\alpha(\text{N})=0.000995$ 14; $\alpha(\text{O})=0.000179$ 3; $\alpha(\text{P})=1.215\times 10^{-5}$ 17 Mult.: DCO=0.77 3 and POL=-0.17 11 (2017Mu12); A ₂ =0.51 5, A ₄ =0.03 6 (1988KaZW); A ₂ =0.50 7, A ₄ =0.11 8 (1979DaZN). E _γ : From 1988KaZW.
2210.2?		544 ^{&} 1 1944.6 [‡] 3	100 [‡]	1636.31 265.61	6 ⁺ 2 ⁺			
2246.52	8 ⁺	464.3 2	26 6	1782.23	8 ⁺	(M1+E2)	0.0947	$\alpha(\text{K})=0.0783$ 11; $\alpha(\text{L})=0.01263$ 18; $\alpha(\text{M})=0.00291$ 4 $\alpha(\text{N})=0.000720$ 11; $\alpha(\text{O})=0.0001297$ 19; $\alpha(\text{P})=8.81\times 10^{-6}$ 13 Mult.: From A ₂ =-0.12 5, A ₄ =-0.02 5 (1988KaZW) and the adopted level scheme.
		610.2 2	100 9	1636.31	6 ⁺	E2	0.01549	$\alpha(\text{K})=0.01188$ 17; $\alpha(\text{L})=0.00276$ 4; $\alpha(\text{M})=0.000662$ 10 $\alpha(\text{N})=0.0001629$ 23; $\alpha(\text{O})=2.79\times 10^{-5}$ 4; $\alpha(\text{P})=1.257\times 10^{-6}$ 18 Mult.: DCO=1.06 3 and POL=0.10 4 (2017Mu12); A ₂ =0.28 5, A ₄ =-0.05 6 (1988KaZW); A ₂ =0.27 5, A ₄ =-0.09 6 (1979DaZN).
2295.61	(1,2 ⁺)	1062.1 2 2030.02 [‡] 12 2295.48 [‡] 23	21 4 100 [‡] 9 50 [‡] 7	1184.43 265.61 0.0	6 ⁺ 2 ⁺ 0 ⁺			
2312.45	9 ⁻	544.3 2	100	1768.15	7 ⁻	E2	0.0202	$\alpha(\text{N})=0.000227$ 4; $\alpha(\text{O})=3.87\times 10^{-5}$ 6; $\alpha(\text{P})=1.601\times 10^{-6}$ 23 $\alpha(\text{K})=0.01516$ 22; $\alpha(\text{L})=0.00383$ 6; $\alpha(\text{M})=0.000925$ 13 Mult.: DCO=1.01 5 and POL=0.10 5 (2017Mu12); A ₂ =0.24 5, A ₄ =-0.07 5 (1988KaZW); A ₂ =0.37 5, A ₄ =0.03 6 (1979DaZN).
2437.13	10 ⁺	654.9 2	100	1782.23	8 ⁺	E2	0.01322	$\alpha(\text{K})=0.01025$ 15; $\alpha(\text{L})=0.00227$ 4; $\alpha(\text{M})=0.000543$ 8 $\alpha(\text{N})=0.0001336$ 19; $\alpha(\text{O})=2.30\times 10^{-5}$ 4; $\alpha(\text{P})=1.085\times 10^{-6}$ 16 B(E2)(W.u.)=1.5×10 ² +7-9 Mult.: DCO=1.11 4 and POL=0.13 3 (2017Mu12); A ₂ =0.31 3, A ₄ =-0.06 4 (1979DaZN); A ₂ =0.20 5, A ₄ =-0.05 6 (1988KaZW).
2446.89	(1,2 ⁺)	2446.87 [‡] 22	100 [‡]	0.0	0 ⁺			
2458.05	9 ⁻	145.6 2	37 7	2312.45	9 ⁻	[M1]	2.28	$\alpha(\text{K})=1.88$ 3; $\alpha(\text{L})=0.310$ 5; $\alpha(\text{M})=0.0718$ 11 $\alpha(\text{N})=0.0178$ 3; $\alpha(\text{O})=0.00319$ 5; $\alpha(\text{P})=0.000215$ 4 B(M1)(W.u.)≈0.0018
		689.9 2	100 10	1768.15	7 ⁻	E2	0.01179	$\alpha(\text{K})=0.00921$ 13; $\alpha(\text{L})=0.00198$ 3; $\alpha(\text{M})=0.000471$ 7 $\alpha(\text{N})=0.0001159$ 17; $\alpha(\text{O})=2.00\times 10^{-5}$ 3; $\alpha(\text{P})=9.75\times 10^{-7}$ 14 B(E2)(W.u.)≈0.039 Mult.: DCO=1.07 5 and POL=0.24 7 (2017Mu12); A ₂ =0.25 10, A ₄ =-0.18 13 (1979DaZN); A ₂ =0.23 4, A ₄ =-0.06 6 (1988KaZW).
2468.4?	(1,2 ⁺)	1669.6 [‡] 5	100 [‡]	798.75	0 ⁺			

Adopted Levels, Gammas (continued)

$\gamma(^{188}\text{Pt})$ (continued)								
E_i (level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. #	$\alpha^{\text{@}}$	Comments
2497.50		2231.88 ‡ 12	100 ‡	265.61	2 ⁺			
2524.65?		2259.07 ‡ 19	100 ‡	265.61	2 ⁺			
2588.6?		1917.6 ‡ 3	100 ‡	670.97	4 ⁺			
2620.2	(8 ⁺)	838.0 2	100	1782.23	8 ⁺	(E2)	0.00782	$\alpha(\text{K})=0.00624$ 9; $\alpha(\text{L})=0.001209$ 17; $\alpha(\text{M})=0.000285$ 4 $\alpha(\text{N})=7.02\times 10^{-5}$ 10; $\alpha(\text{O})=1.226\times 10^{-5}$ 18; $\alpha(\text{P})=6.60\times 10^{-7}$ 10 Mult.: From $A_2=0.35$ 10, $A_4=0.05$ 12 (1979DaZN); $A_2=0.17$ 5, $A_4=0.05$ 6 (1988KaZW).
2651.25	10 ⁻	338.8 2	32 4	2312.45	9 ⁻	M1+E2	0.220	$\alpha(\text{K})=0.181$ 3; $\alpha(\text{L})=0.0295$ 5; $\alpha(\text{M})=0.00681$ 10 $\alpha(\text{N})=0.001685$ 24; $\alpha(\text{O})=0.000303$ 5; $\alpha(\text{P})=2.05\times 10^{-5}$ 3 Mult.: DCO=0.78 9 and POL=-0.16 14 (2017Mu12).
		471.5 2	100 9	2179.75	8 ⁻	E2	0.0286	$\alpha(\text{K})=0.0208$ 3; $\alpha(\text{L})=0.00593$ 9; $\alpha(\text{M})=0.001445$ 21 $\alpha(\text{N})=0.000355$ 5; $\alpha(\text{O})=5.97\times 10^{-5}$ 9; $\alpha(\text{P})=2.19\times 10^{-6}$ 3 Mult.: DCO=1.08 5 and POL=0.11 9 (2017Mu12).
2663.63	10 ⁺	226.5 2 417.1 2	35 5 100 6	2437.13 2246.52	10 ⁺ 8 ⁺	E2	0.0392	$\alpha(\text{K})=0.0276$ 4; $\alpha(\text{L})=0.00881$ 13; $\alpha(\text{M})=0.00216$ 3 $\alpha(\text{N})=0.000531$ 8; $\alpha(\text{O})=8.86\times 10^{-5}$ 13; $\alpha(\text{P})=2.87\times 10^{-6}$ 4 Mult.: DCO=1.14 4 and POL=0.10 4 (2017Mu12); $A_2=0.32$ 4, $A_4=-0.09$ 6 (1988KaZW); $A_2=0.38$ 7, $A_4=0.06$ 9 (1979DaZN).
		881.4 2	38.1 24	1782.23	8 ⁺	(E2)	0.00705	$\alpha(\text{K})=0.00565$ 8; $\alpha(\text{L})=0.001071$ 15; $\alpha(\text{M})=0.000252$ 4 $\alpha(\text{N})=6.20\times 10^{-5}$ 9; $\alpha(\text{O})=1.086\times 10^{-5}$ 16; $\alpha(\text{P})=5.97\times 10^{-7}$ 9 Mult.: $A_2=0.34$ 20, $A_4=-0.18$ 24 (1979DaZN).
2701.35	10 ⁻	243.3 2	96 14	2458.05	9 ⁻	(M1+E2)	0.542	$\alpha(\text{K})=0.447$ 7; $\alpha(\text{L})=0.0733$ 11; $\alpha(\text{M})=0.01692$ 24 $\alpha(\text{N})=0.00419$ 6; $\alpha(\text{O})=0.000754$ 11; $\alpha(\text{P})=5.09\times 10^{-5}$ 8 Mult.: DCO=0.71 5 (2017Mu12); $A_2=0.13$ 5, $A_4=0.15$ 6 (1988KaZW). δ : 6 +8-3 (1988KaZW).
2702.03	10 ⁺	388.9 2 919.8 2	100 24 100 6	2312.45 1782.23	9 ⁻ 8 ⁺	E2	0.00647	$\alpha(\text{K})=0.00520$ 8; $\alpha(\text{L})=0.000969$ 14; $\alpha(\text{M})=0.000227$ 4 $\alpha(\text{N})=5.60\times 10^{-5}$ 8; $\alpha(\text{O})=9.82\times 10^{-6}$ 14; $\alpha(\text{P})=5.49\times 10^{-7}$ 8 Mult.: DCO=1.08 2 and POL=0.11 9; $A_2=0.28$ 4, $A_4=-0.15$ 6 (1988KaZW).
2772.6	11 ⁻	460.2 2	100	2312.45	9 ⁻	E2	0.0304	$\alpha(\text{K})=0.0220$ 3; $\alpha(\text{L})=0.00640$ 9; $\alpha(\text{M})=0.001562$ 22 $\alpha(\text{N})=0.000384$ 6; $\alpha(\text{O})=6.45\times 10^{-5}$ 9; $\alpha(\text{P})=2.31\times 10^{-6}$ 4 Mult.: DCO=0.96 7 and POL=0.12 3 (2017Mu12); $A_2=0.27$ 4, $A_4=-0.12$ 6 (1988KaZW); $A_2=0.16$ 7, $A_4=-0.21$ 9 (1979DaZN).
2798.1?		2532.5 5	100	265.61	2 ⁺			
2810.13	12 ⁺	108.1 2	41 9	2702.03	10 ⁺	E2	3.56 6	$\alpha(\text{K})=0.645$ 10; $\alpha(\text{L})=2.19$ 4; $\alpha(\text{M})=0.566$ 10 $\alpha(\text{N})=0.1380$ 23; $\alpha(\text{O})=0.0215$ 4; $\alpha(\text{P})=7.17\times 10^{-5}$ 11 B(E2)(W.u.)=78 21 E_γ : Other: 107.8 2 from ce data in 1979Ri08. Mult.: from K/L \approx 0.4 (1979Ri08).
		146.5 2	100 19	2663.63	10 ⁺	E2	1.091	$\alpha(\text{K})=0.360$ 6; $\alpha(\text{L})=0.550$ 9; $\alpha(\text{M})=0.1415$ 22 $\alpha(\text{N})=0.0345$ 6; $\alpha(\text{O})=0.00543$ 9; $\alpha(\text{P})=3.44\times 10^{-5}$ 5

Adopted Levels, Gammas (continued)

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

<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ[†]</u>	<u>I_γ[†]</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.#</u>	<u>α[@]</u>	<u>Comments</u>
2810.13	12 ⁺	373.0 2	78 9	2437.13	10 ⁺	[E2]	0.0529	B(E2)(W.u.)=42 10 Mult.: DCO=1.15 4 (2017Mu12); K/L≈0.7 (1979Ri08); A ₂ =0.22 8, A ₄ =-0.23 10 (1979DaZN); A ₂ =0.10 5, A ₄ =-0.01 6 (1988KaZW). α(K)=0.0359 5; α(L)=0.01286 19; α(M)=0.00318 5 α(N)=0.000781 11; α(O)=0.0001291 19; α(P)=3.70×10 ⁻⁶ 6
2875.1	(11 ⁺)	173.1 2	100	2702.03	10 ⁺	(M1)	1.399	B(E2)(W.u.)=0.30 6 α(K)=1.152 17; α(L)=0.190 3; α(M)=0.0439 7 α(N)=0.01087 16; α(O)=0.00196 3; α(P)=0.0001318 19 Mult.: DCO=0.66 19 (2017Mu12).
2909.6?	(2 ⁺)	1596.9 [‡] 3	100 [‡]	1312.73	2 ⁺	(E0+M1+E2)	0.0200 25	α(K)=0.00337 5; α(L)=0.000523 8; α(M)=0.0001200 17 α(N)=2.97×10 ⁻⁵ 5; α(O)=5.36×10 ⁻⁶ 8; α(P)=3.71×10 ⁻⁷ 6; α(IPF)=0.0001516 22 Mult.: from α(K)exp=0.016 2 (1972Fi12), which suggests E0 admixtures. α: 0.0200 25 deduced from K/T and α(K)exp.
2960.3	11 ⁻	259.0 5 502.3 2	29 6 100 15	2701.35 10 ⁻ 2458.05 9 ⁻	10 ⁻ 9 ⁻	(E2)	0.0245	α(K)=0.0181 3; α(L)=0.00487 7; α(M)=0.001183 17 α(N)=0.000291 4; α(O)=4.91×10 ⁻⁵ 7; α(P)=1.90×10 ⁻⁶ 3 Mult.: DCO=1.22 3 (2017Mu12); A ₂ =0.39 5, A ₄ =-0.08 6 (1988KaZW).
3046.73		1697.2 [‡] 4 2441.3 [‡] 3	25 [‡] 7 48 [‡] 9	1349.99 3 ⁻ 605.69 2 ⁺	3 ⁻ 2 ⁺			
3102.4	12 ⁻	2780.97 [‡] 15 329.8 5 451.2 2	100 [‡] 9 13 4 100 7	265.61 2 ⁺ 2772.6 11 ⁻ 2651.25 10 ⁻	2 ⁺ 11 ⁻ 10 ⁻	E2	0.0320	α(K)=0.0230 4; α(L)=0.00682 10; α(M)=0.001666 24 α(N)=0.000409 6; α(O)=6.86×10 ⁻⁵ 10; α(P)=2.41×10 ⁻⁶ 4 Mult.: DCO=0.99 4 and POL=0.13 8 (2017Mu12).
3103.6	12 ⁺	666.5 2	100	2437.13	10 ⁺	E2	0.01272	α(K)=0.00988 14; α(L)=0.00217 3; α(M)=0.000517 8 α(N)=0.0001273 18; α(O)=2.19×10 ⁻⁵ 3; α(P)=1.047×10 ⁻⁶ 15 B(E2)(W.u.)>1.6×10 ² Mult.: DCO=0.99 6 and POL=0.12 10 (2017Mu12); A ₂ =0.29 5, A ₄ =-0.11 6 (1988KaZW).
3139.0	14 ⁺	328.9 2	100	2810.13	12 ⁺	E2	0.0752	α(K)=0.0487 7; α(L)=0.0201 3; α(M)=0.00502 8 α(N)=0.001230 18; α(O)=0.000202 3; α(P)=4.96×10 ⁻⁶ 7 Mult.: DCO=1.17 5 and POL=0.22 4 (2017Mu12); A ₂ =0.23 6, A ₄ =-0.12 7 (1979DaZN); A ₂ =0.25 5, A ₄ =-0.09 6 (1988KaZW).
3182.0	12 ⁺	744.9 2	100	2437.13	10 ⁺	E2	0.01000	α(K)=0.00788 11; α(L)=0.001621 23; α(M)=0.000384 6 α(N)=9.46×10 ⁻⁵ 14; α(O)=1.642×10 ⁻⁵ 23; α(P)=8.34×10 ⁻⁷ 12 Mult.: DCO=1.21 20 and POL=0.15 10 (2017Mu12); A ₂ =0.38 8, A ₄ =-0.17 10 (1979DaZN); A ₂ =0.18 5, A ₄ =-0.06 6 (1988KaZW).
3226.6	12 ⁻	266.3 5 525.3 2	100	2960.3 11 ⁻ 2701.35 10 ⁻	11 ⁻ 10 ⁻	E2	0.0220	α(K)=0.01639 23; α(L)=0.00426 6; α(M)=0.001030 15 α(N)=0.000253 4; α(O)=4.29×10 ⁻⁵ 6; α(P)=1.728×10 ⁻⁶ 25

Adopted Levels, Gammas (continued)

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

<u>E_i(level)</u>	<u>J^{π}_i</u>	<u>E_{γ}</u> †	<u>I_{γ}</u> †	<u>E_f</u>	<u>J^{π}_f</u>	<u>Mult.#</u>	<u>$\alpha^{\textcircled{a}}$</u>	<u>Comments</u>
								Mult.: DCO=1.27 6 (2017Mu12); A ₂ =0.28 4, A ₄ =-0.09 5 (1988KaZW); A ₂ =0.44 11, A ₄ =0.05 13 (1979DaZN).
3232.49		1882.45 ‡ 18	82 ‡ 11	1349.99	3 ⁻			
		2626.9 ‡ 3	100 ‡ 22	605.69	2 ⁺			
3260.66		736.4 ‡ 6	49 ‡ 22	2524.65?				
		1306.4 ‡ 3	92 ‡ 19	1954.26	(1 ⁺ ,2)			
		1484.55 ‡ 23	100 ‡ 18	1776.08	(1 ⁻)			
		2994.9 ‡ 4	91 ‡ 18	265.61	2 ⁺			
3261.3	(13 ⁺)	386.2 2	100	2875.1	(11 ⁺)	(E2)	0.0481	α (K)=0.0330 5; α (L)=0.01141 17; α (M)=0.00282 4 α (N)=0.000691 10; α (O)=0.0001146 17; α (P)=3.42×10 ⁻⁶ 5 Mult.: DCO=1.28 7 (2017Mu12).
		451.2 5		2810.13	12 ⁺			
3325.1	13 ⁻	552.5 2	100	2772.6	11 ⁻	E2	0.0195	α (K)=0.01468 21; α (L)=0.00367 6; α (M)=0.000885 13 α (N)=0.000218 3; α (O)=3.70×10 ⁻⁵ 6; α (P)=1.551×10 ⁻⁶ 22 Mult.: DCO=1.20 6 and POL=0.07 5 (2017Mu12); A ₂ =0.28 4, A ₄ =-0.09 6 (1988KaZW); A ₂ =0.31 10, A ₄ =-0.06 13 (1979DaZN).
3565.0	13 ⁻	338.3 5	38 10	3226.6	12 ⁻			
		604.6 2	100 24	2960.3	11 ⁻	E2	0.01582	α (K)=0.01211 17; α (L)=0.00283 4; α (M)=0.000680 10 α (N)=0.0001672 24; α (O)=2.86×10 ⁻⁵ 4; α (P)=1.282×10 ⁻⁶ 18 Mult.: DCO=1.14 6 (2017Mu12); A ₂ =0.23 6, A ₄ =-0.03 8 (1979DaZN).
3580.5	14 ⁺	398.5 2	48 13	3182.0	12 ⁺			
		441.5 5	20 8	3139.0	14 ⁺			
		476.9 2	100 15	3103.6	12 ⁺	E2	0.0278	α (K)=0.0203 3; α (L)=0.00572 8; α (M)=0.001393 20 α (N)=0.000342 5; α (O)=5.76×10 ⁻⁵ 9; α (P)=2.13×10 ⁻⁶ 3 Mult.: DCO=1.05 4 and POL=0.15 10 (2017Mu12); A ₂ =0.32 4, A ₄ =-0.14 6 (1988KaZW).
		770.4 2	38 10	2810.13	12 ⁺			
3625.8	14 ⁻	300.6 5		3325.1	13 ⁻			
		523.3 2	100	3102.4	12 ⁻	E2	0.0222	α (K)=0.01652 24; α (L)=0.00430 6; α (M)=0.001042 15 α (N)=0.000256 4; α (O)=4.34×10 ⁻⁵ 7; α (P)=1.743×10 ⁻⁶ 25 Mult.: DCO=0.98 3 and POL=0.18 5 (2017Mu12).
3627.0	16 ⁺	488.0 2	100	3139.0	14 ⁺	E2	0.0263	α (K)=0.0193 3; α (L)=0.00532 8; α (M)=0.001295 19 α (N)=0.000318 5; α (O)=5.37×10 ⁻⁵ 8; α (P)=2.03×10 ⁻⁶ 3 Mult.: DCO=1.11 4 and POL=0.11 5 (2017Mu12); A ₂ =0.31 4, A ₄ =-0.13 6 (1988KaZW); A ₂ =0.28 7, A ₄ =-0.14 9 (1979DaZN).
3749.6	(15 ⁺)	488.3 2	100	3261.3	(13 ⁺)	E2	0.0262	α (K)=0.0193 3; α (L)=0.00531 8; α (M)=0.001293 19 α (N)=0.000318 5; α (O)=5.36×10 ⁻⁵ 8; α (P)=2.03×10 ⁻⁶ 3 Mult.: DCO=1.05 4 (2017Mu12); A ₂ =0.31 4, A ₄ =-0.13 6 (1988KaZW); A ₂ =0.28 7, A ₄ =-0.14 9 (1979DaZN).
		610.6 5		3139.0	14 ⁺			
3867.2	14 ⁻	302.2 & 5		3565.0	13 ⁻			

Adopted Levels, Gammas (continued)

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

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha^@$	Comments
3867.2	14 ⁻	640.5 2	100	3226.6	12 ⁻	E2	0.01389	$\alpha(\text{K})=0.01073$ 15; $\alpha(\text{L})=0.00241$ 4; $\alpha(\text{M})=0.000577$ 8 $\alpha(\text{N})=0.0001421$ 20; $\alpha(\text{O})=2.44\times 10^{-5}$ 4; $\alpha(\text{P})=1.136\times 10^{-6}$ 16 Mult.: DCO=1.06 6 (2017Mu12); $A_2=0.29$ 4, $A_4=-0.11$ 6 (1988KaZW).
3946.6	15 ⁻	621.4 2	100	3325.1	13 ⁻	E2	0.01487	$\alpha(\text{K})=0.01143$ 16; $\alpha(\text{L})=0.00262$ 4; $\alpha(\text{M})=0.000629$ 9 $\alpha(\text{N})=0.0001547$ 22; $\alpha(\text{O})=2.65\times 10^{-5}$ 4; $\alpha(\text{P})=1.210\times 10^{-6}$ 17 Mult.: DCO=1.01 7 and POL=0.18 8 (2017Mu12); $A_2=0.25$ 5, $A_4=-0.03$ 6 (1988KaZW).
4007.6	16 ⁺	380.6 5 427.1 2	9 4 100 11	3627.0 16 ⁺ 3580.5 14 ⁺		E2	0.0368	$\alpha(\text{K})=0.0261$ 4; $\alpha(\text{L})=0.00814$ 12; $\alpha(\text{M})=0.00200$ 3 $\alpha(\text{N})=0.000491$ 7; $\alpha(\text{O})=8.19\times 10^{-5}$ 12; $\alpha(\text{P})=2.72\times 10^{-6}$ 4 Mult.: DCO=0.98 4 and POL=0.09 5 (2017Mu12); $A_2=0.34$ 5, $A_4=-0.11$ 6 (1988KaZW).
4174.5	16 ⁻	548.7 2	100	3625.8	14 ⁻	E2	0.0198	$\alpha(\text{K})=0.01490$ 21; $\alpha(\text{L})=0.00374$ 6; $\alpha(\text{M})=0.000903$ 13 $\alpha(\text{N})=0.000222$ 4; $\alpha(\text{O})=3.78\times 10^{-5}$ 6; $\alpha(\text{P})=1.574\times 10^{-6}$ 22 Mult.: DCO=1.12 4 and POL=0.14 4 (2017Mu12).
4237.8	15 ⁻	672.8 2	100	3565.0	13 ⁻	E2	0.01246	$\alpha(\text{K})=0.00969$ 14; $\alpha(\text{L})=0.00211$ 3; $\alpha(\text{M})=0.000504$ 7 $\alpha(\text{N})=0.0001241$ 18; $\alpha(\text{O})=2.14\times 10^{-5}$ 3; $\alpha(\text{P})=1.027\times 10^{-6}$ 15 Mult.: $A_2=0.24$ 4, $A_4=-0.11$ 6 (1988KaZW).
4243.8	18 ⁺	616.8 2	100	3627.0	16 ⁺	E2	0.01512	$\alpha(\text{K})=0.01161$ 17; $\alpha(\text{L})=0.00268$ 4; $\alpha(\text{M})=0.000642$ 9 $\alpha(\text{N})=0.0001580$ 23; $\alpha(\text{O})=2.71\times 10^{-5}$ 4; $\alpha(\text{P})=1.229\times 10^{-6}$ 18 Mult.: DCO=1.13 3 and POL=0.16 6 (2017Mu12); $A_2=0.35$ 4, $A_4=-0.29$ 6 (1988KaZW).
4280.5	(17 ⁻)	106.0 5 333.9 2	100	4174.5 16 ⁻ 3946.6 15 ⁻		(E2)	0.0721	$\alpha(\text{K})=0.0469$ 7; $\alpha(\text{L})=0.0191$ 3; $\alpha(\text{M})=0.00474$ 7 $\alpha(\text{N})=0.001163$ 17; $\alpha(\text{O})=0.000191$ 3; $\alpha(\text{P})=4.78\times 10^{-6}$ 7 Mult.: DCO=1.26 9 (2017Mu12).
4353.2	(17 ⁺)	603.6 2 726.2 & 5	100	3749.6 (15 ⁺) 3627.0 16 ⁺				
4478.8	(18 ⁺)	471.2 5	100	4007.6 16 ⁺				
4549.7	(16 ⁻)	682.5 5	100	3867.2	14 ⁻	(E2)	0.01207	$\alpha(\text{K})=0.00941$ 14; $\alpha(\text{L})=0.00203$ 3; $\alpha(\text{M})=0.000485$ 7 $\alpha(\text{N})=0.0001194$ 17; $\alpha(\text{O})=2.06\times 10^{-5}$ 3; $\alpha(\text{P})=9.97\times 10^{-7}$ 14 Mult.: $A_2=0.24$ 5, $A_4=0.07$ 6 (1988KaZW).
4593.4	(18 ⁻)	312.9 2	100	4280.5 (17 ⁻)		(M1)	0.272	$\alpha(\text{K})=0.225$ 4; $\alpha(\text{L})=0.0366$ 6; $\alpha(\text{M})=0.00846$ 12 $\alpha(\text{N})=0.00209$ 3; $\alpha(\text{O})=0.000377$ 6; $\alpha(\text{P})=2.55\times 10^{-5}$ 4 Mult.: DCO=0.67 8 (2017Mu12).
4665.4	(17 ⁻)	418.9 5 718.8 2	100	4174.5 16 ⁻ 3946.6 15 ⁻				
4765.4	(18 ⁻)	590.9 5	100	4174.5 16 ⁻				
4947.6	(19 ⁻)	354.2 2	100	4593.4 (18 ⁻)				
4960.7	20 ⁺	716.9 2	100	4243.8	18 ⁺	E2	0.01085	$\alpha(\text{K})=0.00852$ 12; $\alpha(\text{L})=0.00179$ 3; $\alpha(\text{M})=0.000425$ 6 $\alpha(\text{N})=0.0001047$ 15; $\alpha(\text{O})=1.81\times 10^{-5}$ 3; $\alpha(\text{P})=9.02\times 10^{-7}$ 13 Mult.: DCO=1.20 10 and POL=0.16 13 (2017Mu12); $A_2=0.12$ 5, $A_4=0.07$ 6 (1988KaZW).

Adopted Levels, Gammas (continued)

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

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Comments
5201.3		607.9 5	100	4593.4	(18 ⁻)	
5505.2		303.9 5		5201.3		
		557.6 5		4947.6	(19 ⁻)	
5744.9	(22 ⁺)	784.2 5	100	4960.7	20 ⁺	$A_2=0.09$ 5, $A_4=-0.04$ 6 (1988KaZW).
6549.9	(24 ⁺)	805.0 5	100	5744.9	(22 ⁺)	
7367.9	(26 ⁺)	818.0 5	100	6549.9	(24 ⁺)	

† From (HI,xn γ), unless otherwise stated.

‡ From ^{188}Au ε decay.

From ce data in ^{188}Ae ε decay, $\gamma\gamma(\theta)$ (DCO), $\gamma(\theta)$, ce ratios, γ -ray polarization and the apparent band structure.

@ [Additional information 2](#).

& Placement of transition in the level scheme is uncertain.

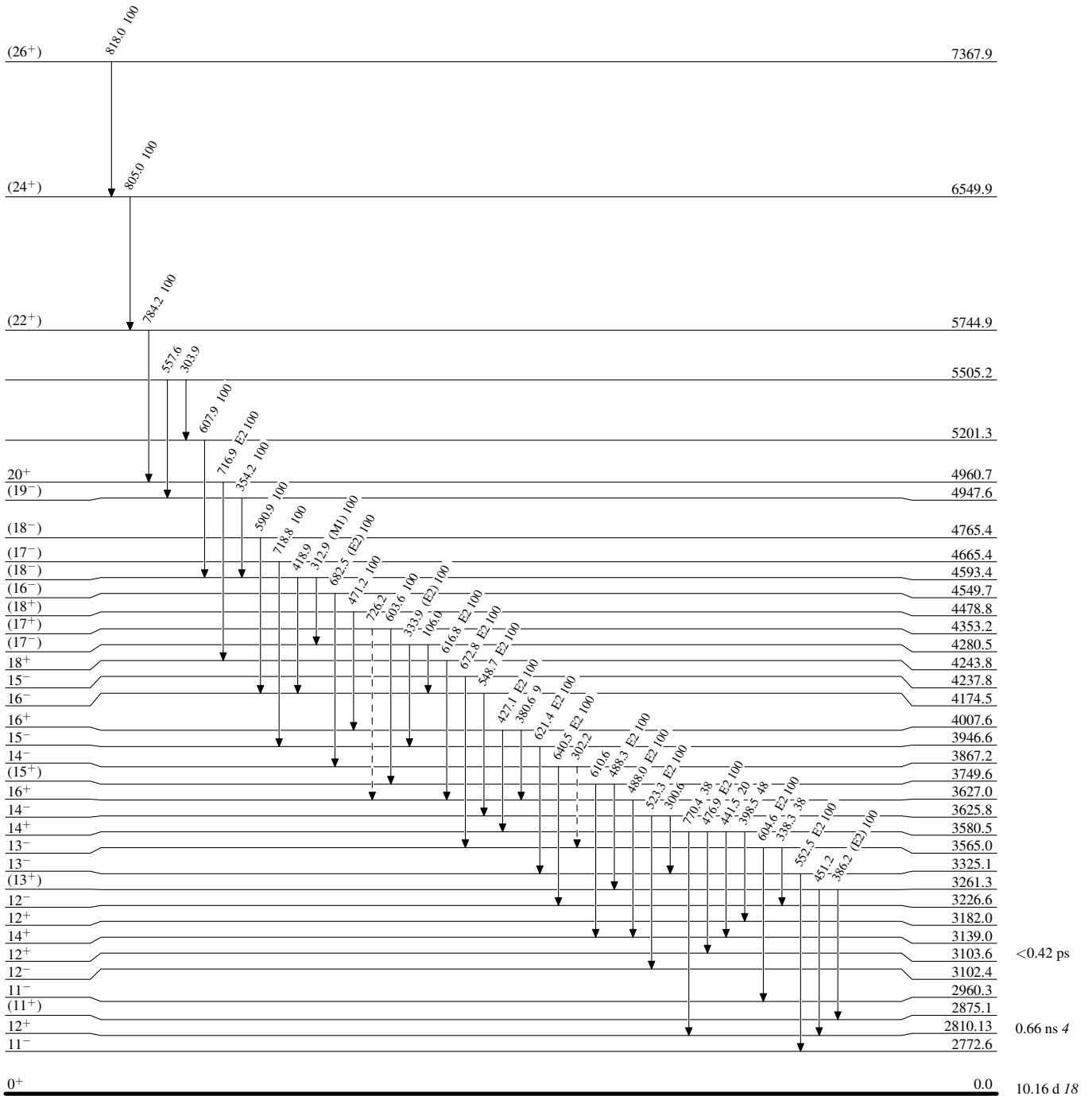
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

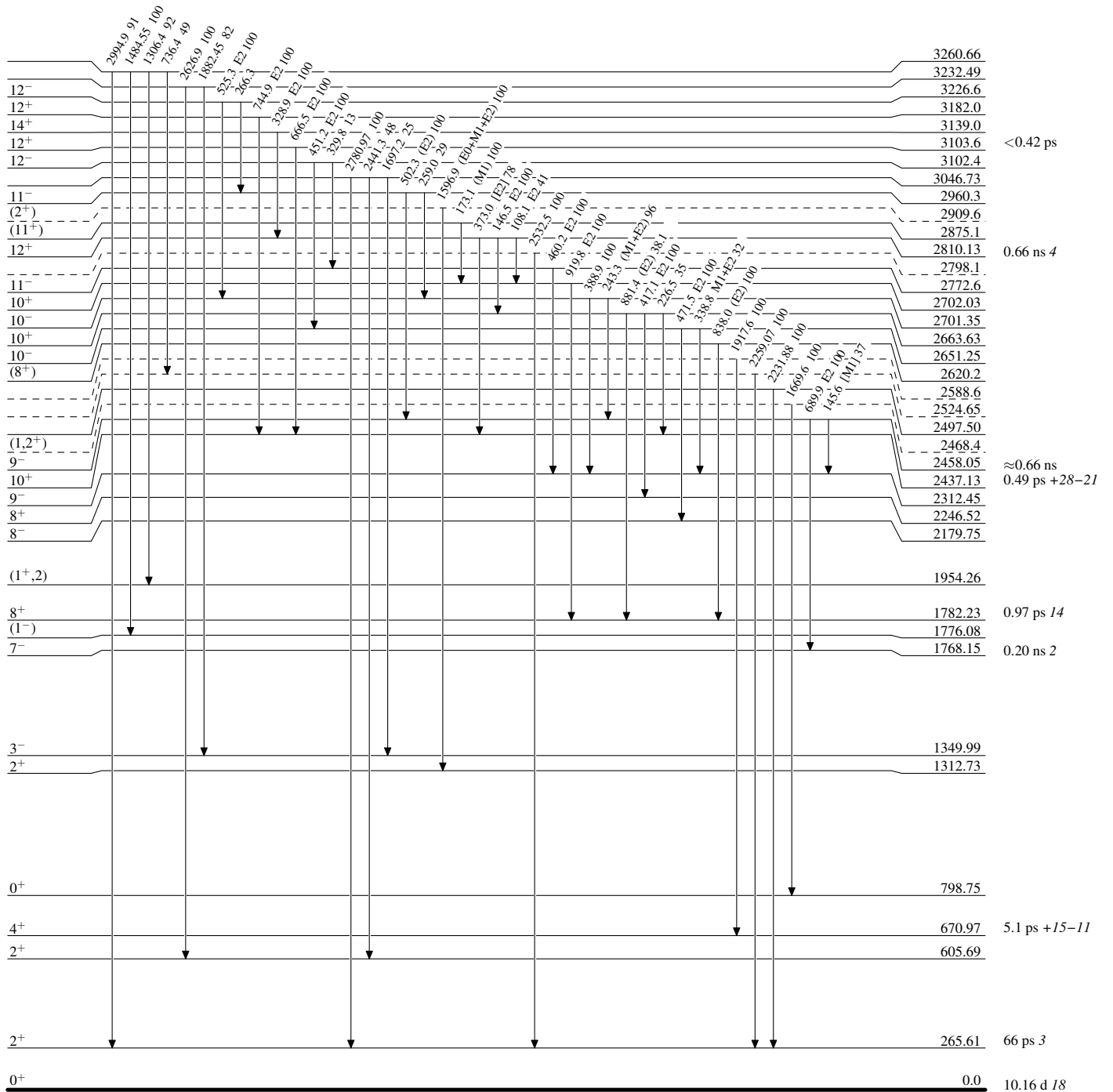
-----▶ γ Decay (Uncertain)



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

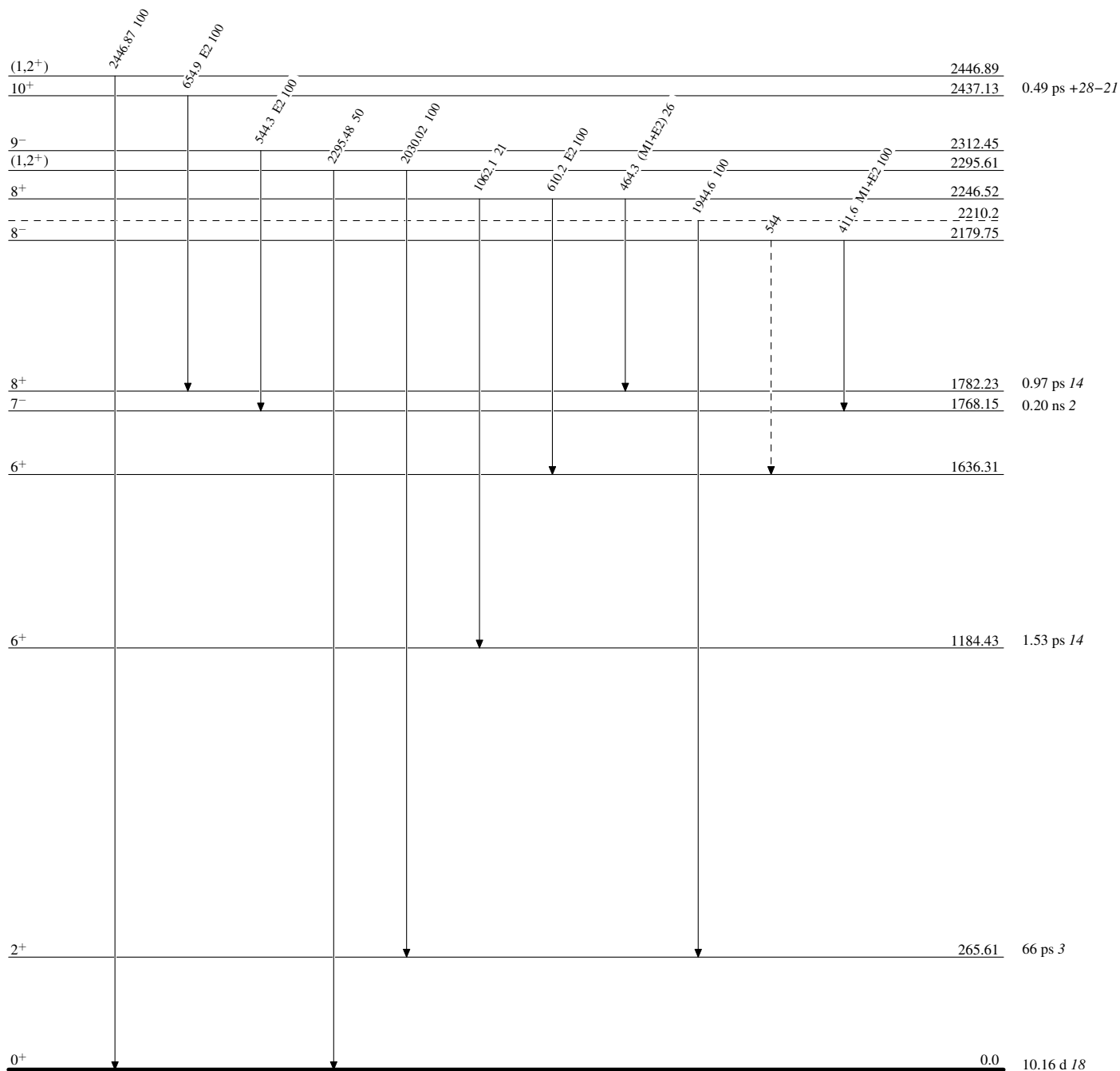


Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain) $^{188}_{78}\text{Pt}_{110}$

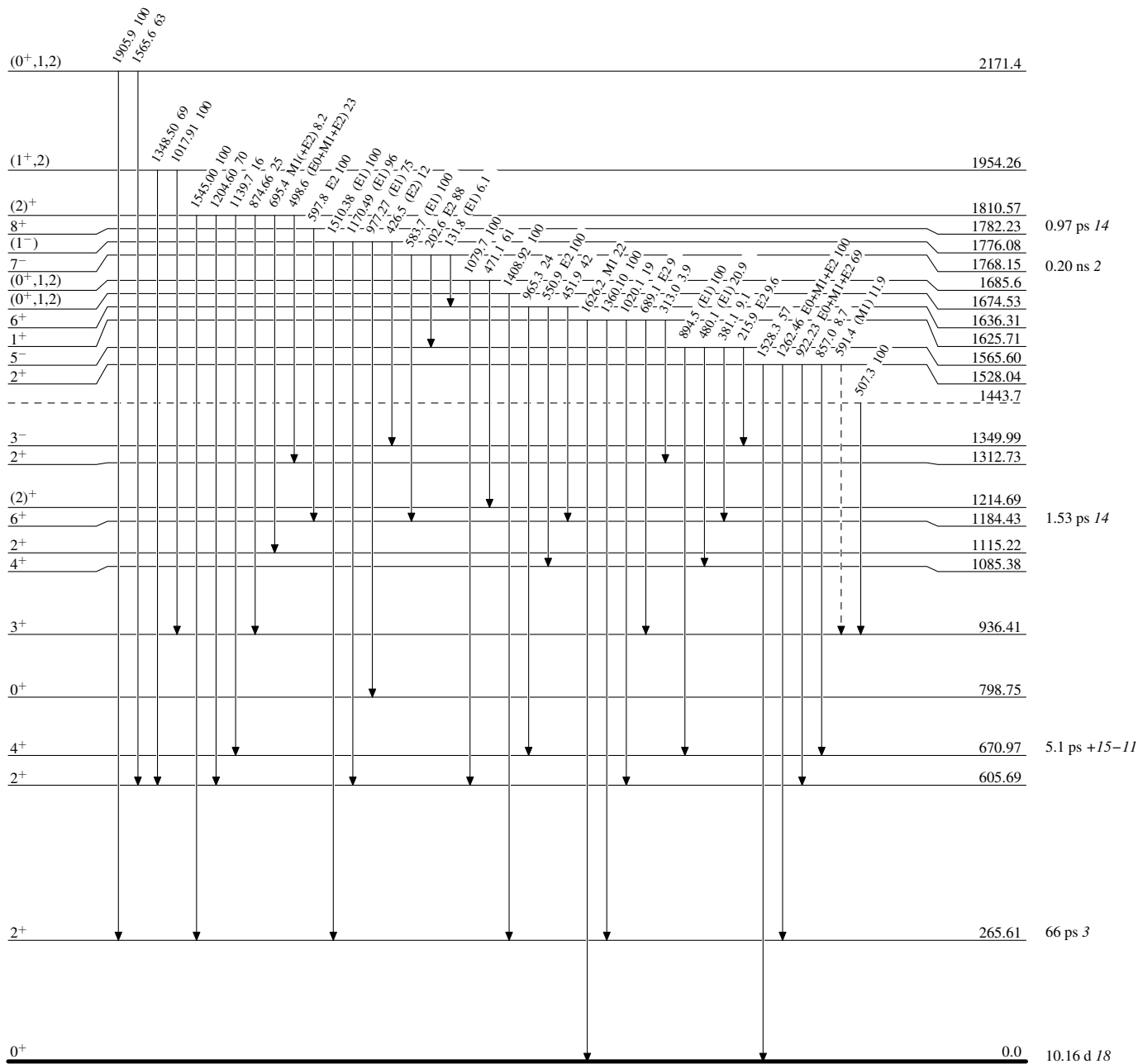
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)



$^{188}_{78}\text{Pt}_{110}$

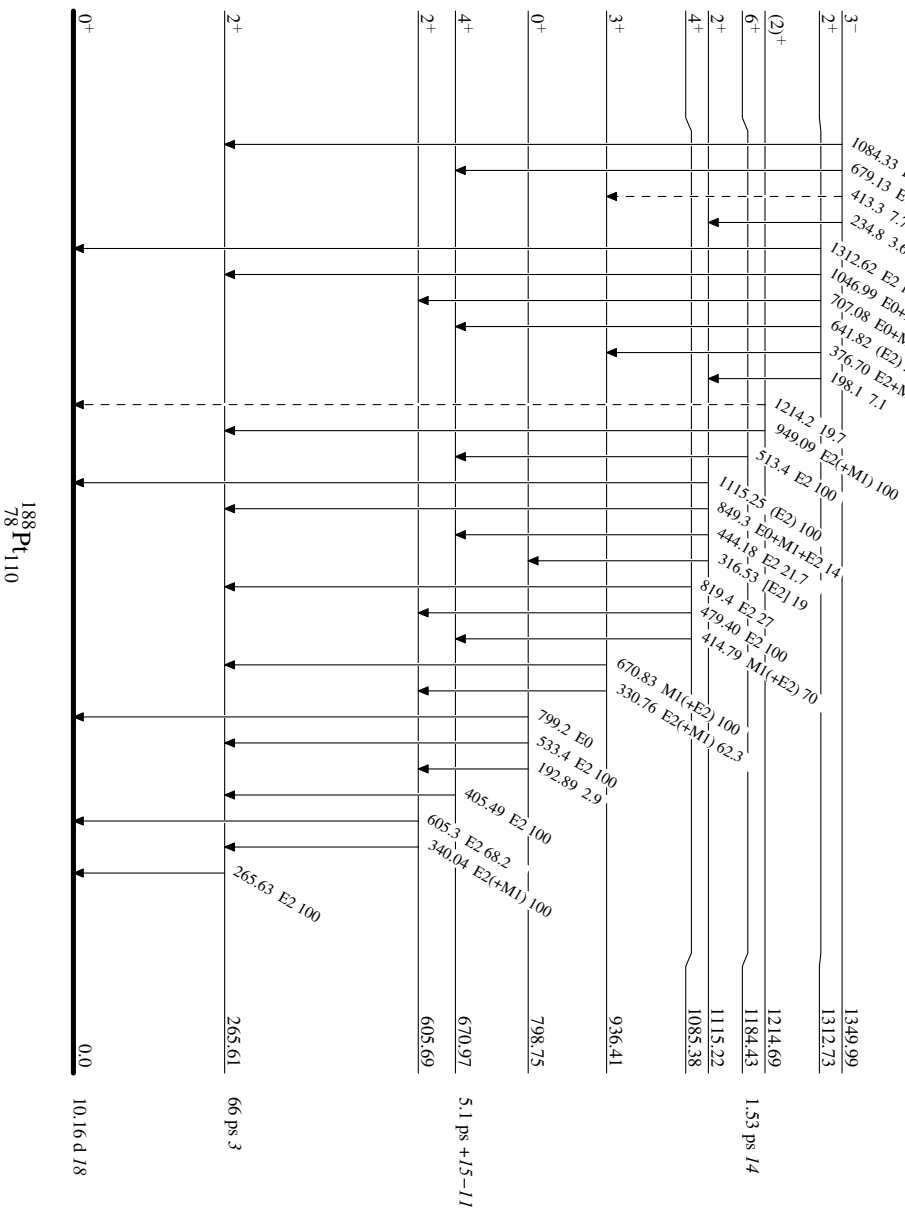
Adopted Levels, Gammas

Legend

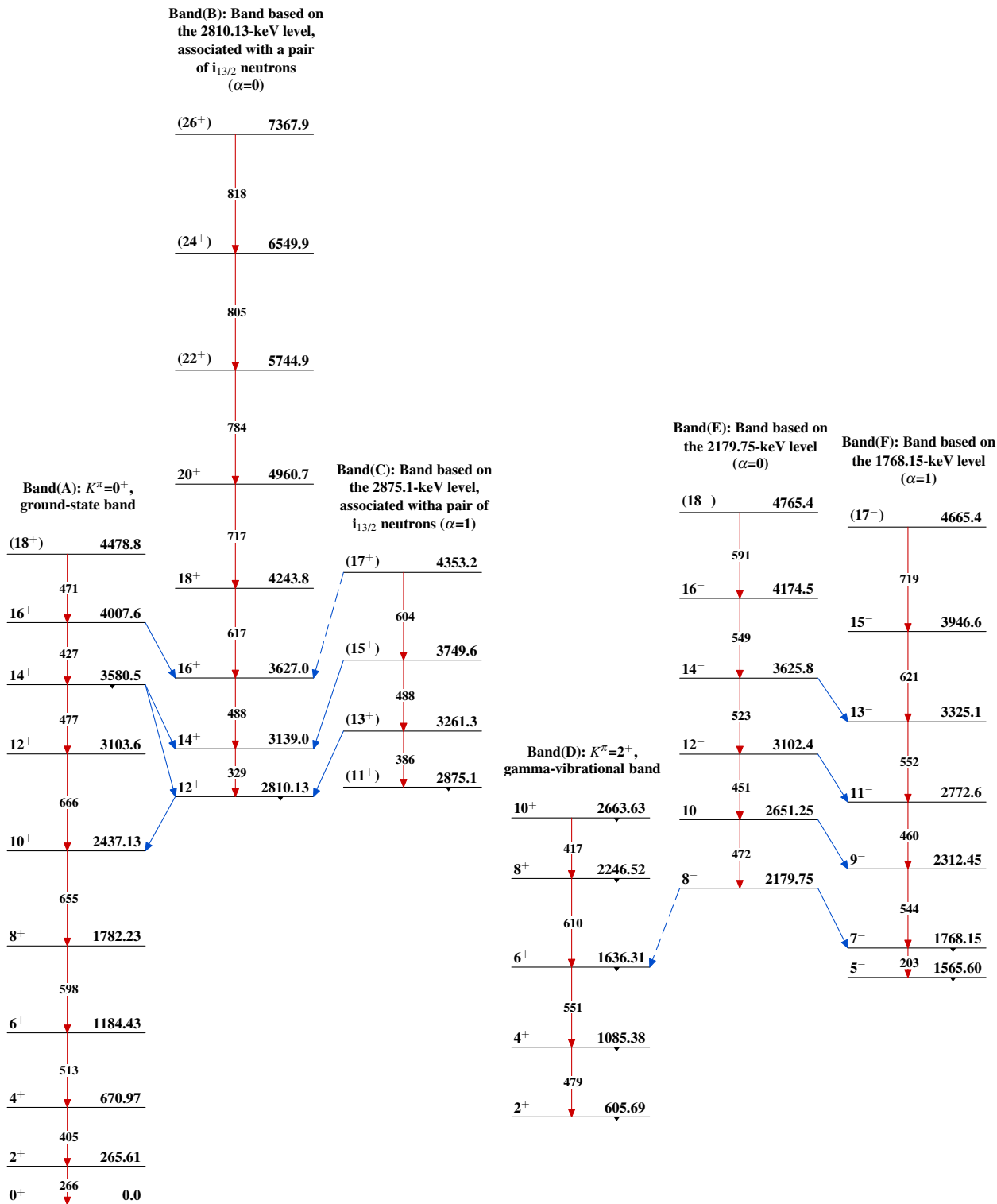
Level Scheme (continued)

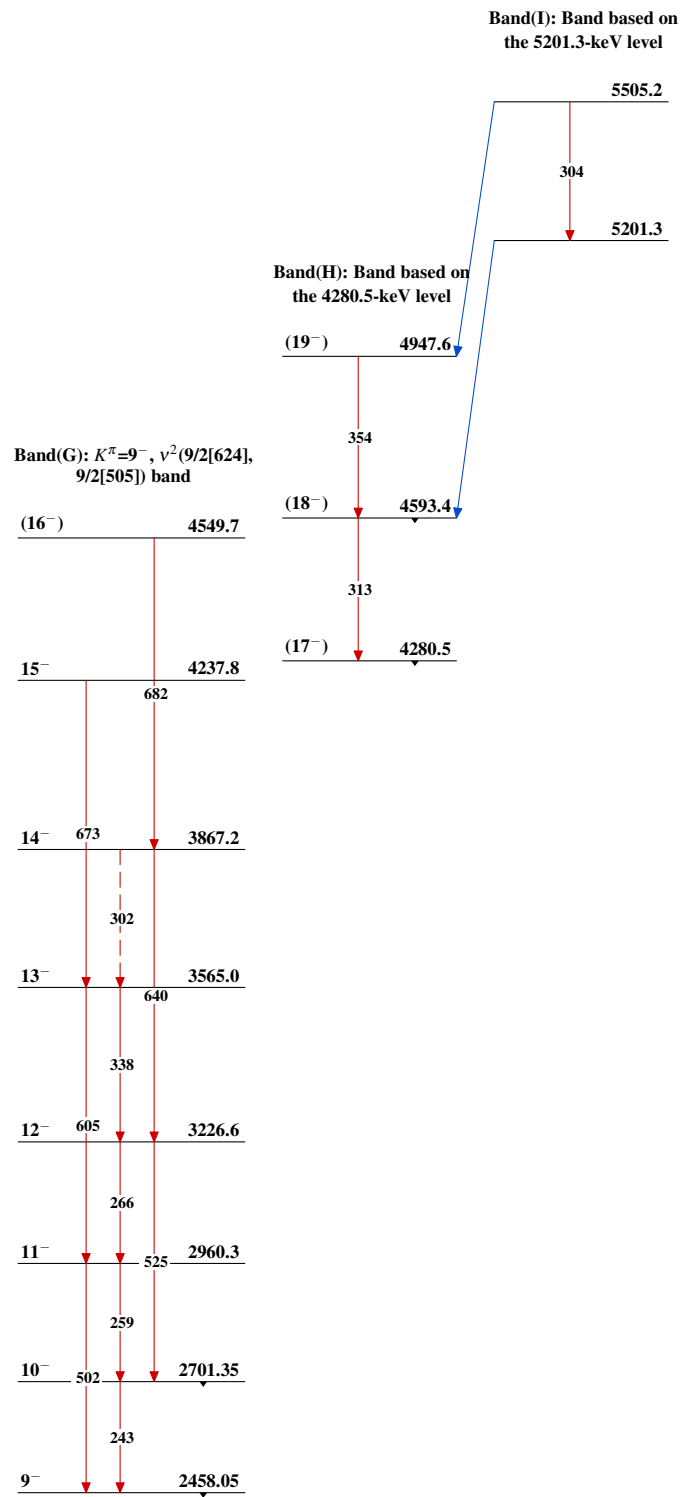
Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



Adopted Levels, Gammas



Adopted Levels, Gammas (continued) $^{188}_{78}\text{Pt}_{110}$