

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 166, 1 (2020)	20-Apr-2020

$Q(\beta^-)=-6400$ 9; $S(n)=7811$ 9; $S(p)=3123$ 23; $Q(\alpha)=6386.5$ 18 [2017Wa10](#)

 ^{205}Rn LevelsCross Reference (XREF) Flags

- A** ^{205}Fr ε decay
B ^{209}Ra α decay
C $^{170}\text{Er}(^{40}\text{Ar}, 5n\gamma)$

E(level) [†]	J^π [‡]	$T_{1/2}$	XREF	Comments
0.0	$5/2^-$	170 s 4	ABC	$\% \alpha = 24.6$ 9; $\% \varepsilon + \% \beta^+ = 75.4$ 9 $\mu = +0.802$ 9; $Q = +0.062$ 6 $\% \alpha$: Weighted average of $\% \alpha = 23\%$ 2 (1971Ho01) and $\% \alpha = 25\%$ 1 (1993Wa04) that are based on value of $\% \alpha = 9.6\%$ 4 for the ^{205}At α -decay branch. $\% \varepsilon + \% \beta^+$ has not been measured directly. J^π : From hfs and isotope shift in 1987Bo29 , favored α -decay to the $J^\pi = 5/2^-$ state in ^{201}Po ($\delta_{02} = 0.089$ 4 in 1997Sc26), comparisons of the measured μ with shell model predictions and systematics of similar structures in neighboring nuclei. $T_{1/2}$: Weighted average of 170 s 7 (1969Ha03) and 170 s 4 (1971Ho01). Other: 108 s 30 (1967Va17). μ : Using collinear fast-beam laser spectroscopy technique (1987Bo29, 2014StZZ). Q : Using collinear fast-beam laser spectroscopy technique (1987OtZW, 2016St14). configuration: $\nu(f_{5/2}^{-1})$ ($\beta_2 = -0.079$ (1995Mo29), spherical shape).
31.40 [@] 15	$(3/2^-)$		A	J^π : 31.40 γ to $5/2^-$; systematics of known single-particle structures in neighboring nuclei.
387.60 16	$(7/2^-)$		AB	J^π : 356.3 γ E2 to $(3/2^-)$, 387.5 γ M1 to $5/2^-$.
545.30? 20	$(7/2^-, 9/2^-)$		A	E(level): The placement is uncertain, since the depopulating 545.3-keV γ rays could feed the 31.4-keV level ($J^\pi = 3/2^-$). J^π : 545.3 γ E2 to either $5/2^-$ or $(3/2^-)$ level.
596.20 16	$(7/2^-)$		A	J^π : 564.7 γ E2 to $(3/2^-)$, 596.3 γ M1 to $5/2^-$.
633.10 20	$(7/2^-)$		AB	J^π : 633.1 γ M1+E2 to $5/2^-$.
657.1 ^{&} 5	$(13/2^+)$	>10 s	A C	XREF: A(?). J^π : From systematics of known isomers in neighboring nuclei. $T_{1/2}$: Estimated in ^{205}Fr ε decay (2010De04), based on the observed ce events within 18.6 s time window. Using B(M4)(W.u.)=3.21 11, unweighted average of 3.1 16 in ^{201}Pb and 3.32 17 in ^{203}Po for the same $\nu i_{13/2}$ to $\nu f_{5/2}$ transition, one may expect $T_{1/2} = 36.4$ s 13. Penning trap mass measurements (2013Dr04), covering excitation energy range of up to 900 keV, found no evidence for a long-lived isomeric state, thus indicating lifetime in the range of milliseconds or shorter.
1049.1? 3	$(7/2^-, 9/2^-, 11/2^-)$		A	J^π : 503.8 γ E2 to $(7/2^-, 9/2^-)$. E(level): The placement is uncertain, given the uncertainty with the energy of the 545.30-keV level (1080.5 if 545.3 γ feeds the 31.4 keV level).
1157.3 [#] 5	$(17/2^+)$		C	J^π : 500.2 γ E2 to $(13/2^+)$; band assignment.
1647.3 [#] 6	$(21/2^+)$		C	J^π : 490.0 γ E2 to $(17/2^+)$; band assignment.
2264.8 [#] 6	$(25/2^+)$		C	J^π : 617.5 γ E2 to $(21/2^+)$; band assignment.
2337.3 ^a 6	$(21/2^+)$		C	J^π : 1180.0 γ (E2) to $(17/2^+)$.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) ^{205}Rn Levels (continued)

E(level) [†]	J ^π [‡]	XREF	Comments
2394.3 ^b 6	(23/2 ⁺)	C	J ^π : 129.0γ to (25/2 ⁺), 746.9γ to (21/2 ⁺).
2453.8 ^a 6	(23/2 ⁺)	C	J ^π : 116.7γ (M1) to (21/2 ⁺); band assignment.
2624.0 ^a 6	(25/2 ⁺)	C	J ^π : 170.2γ (M1) to (23/2 ⁺), 976.6γ to (21/2 ⁺); band assignment.
2640.6 ^b 6	(25/2 ⁺)	C	J ^π : 375.9γ to (25/2 ⁺).
2781.9 ^a 6	(27/2 ⁺)	C	J ^π : 159.7γ (M1) to (25/2 ⁺), 328.2γ to (23/2 ⁺); band assignment.
2803.9 ^b 6	(27/2 ⁺)	C	J ^π : 163.6γ to (25/2 ⁺), 409.5γ (E2) to (23/2 ⁺).
2903.1 ^a 6	(29/2 ⁺)	C	J ^π : 121.2γ (M1) to (27/2 ⁺); band assignment.
2933.8 [#] 6	(29/2 ⁺)	C	J ^π : 669.0γ E2 to (25/2 ⁺); band assignment.
3151.1 ^a 6	(31/2 ⁺)	C	J ^π : 248.0γ (M1) to (27/2 ⁺); band assignment.
3244.1 ^b 6	(31/2 ⁺)	C	J ^π : 440.2γ to (27/2 ⁺).
3499.3 [#] 6	(33/2 ⁺)	C	J ^π : 565.5γ (E2) to (29/2 ⁺); band assignment.
3518.8 ^a 6	(33/2 ⁺)	C	J ^π : 367.7γ (M1) to (31/2 ⁺); band assignment.
3821.2 ^a 6	(35/2 ⁺)	C	J ^π : 302.4γ (M1) to (33/2 ⁺); band assignment.
4109.4 ^a 6	(37/2 ⁺)	C	J ^π : 288.2γ (M1) to (35/2 ⁺); band assignment.
4187.7 [#] 5	(37/2 ⁺)	C	J ^π : 688.7γ to (33/2 ⁺); band assignment.
4247.3 6	(37/2 ⁺)	C	J ^π : 426.1γ to (35/2 ⁺).
4310.7 ^a 6	(39/2 ⁺)	C	J ^π : 201.3γ (M1) to (37/2 ⁺); band assignment.
4716.5 ^a 6	(41/2 ⁺)	C	J ^π : 405.8γ (M1) to (39/2 ⁺); band assignment.

[†] From a least-squares fit to Eγ.

[‡] From the deduced γ-ray transition multipolarities and multiple decay branches.

[#] configuration= $\nu(f_{5/2}^{-1})$.

[@] configuration= $\nu(p_{3/2}^{-1})$.

[&] configuration= $\nu(i_{13/2}^{-1})$.

^a Band(A): configuration= $\nu(i_{13/2}^{-1}) \otimes \pi(i_{13/2}^{+2})$, weakly oblate band. The assignment is tentative.

^b Band(B): Structure associated with the 2394-keV level.

Adopted Levels, Gammas (continued)

E _i (level)	J ^π _i	<u>γ(²⁰⁵Rn)</u>							α [@]	Comments
		E _γ [†]	I _γ [†]	E _f	J ^π _f	Mult. [‡]	δ			
31.40	(3/2 ⁻)	31.4 [#] 2	100 [#]	0.0	5/2 ⁻	[M1]		76.1 18	α(L)=57.8 14; α(M)=13.8 4 α(N)=3.59 9; α(O)=0.786 19; α(P)=0.115 3	
387.60	(7/2 ⁻)	356.3 [#] 2	100 [#] 8	31.40	(3/2 ⁻)	E2		0.0840	α(K)=0.0476 7; α(L)=0.0271 4; α(M)=0.00704 10 α(N)=0.00183 3; α(O)=0.000380 6; α(P)=4.65×10 ⁻⁵ 7 Mult.: α(K)exp=0.048 11 in ²⁰⁵ Fr ε decay (2010De04).	
		387.5 [#] 2	69 [#] 6	0.0	5/2 ⁻	M1		0.297	α(K)=0.241 4; α(L)=0.0429 6; α(M)=0.01017 15 α(N)=0.00265 4; α(O)=0.000580 9; α(P)=8.47×10 ⁻⁵ 12 Mult.: α(K)exp=0.205 40 in ²⁰⁵ Fr ε decay (2010De04).	
545.30?	(7/2 ⁻ ,9/2 ⁻)	545.3 [#] 2	100 [#]	0.0	5/2 ⁻	E2		0.0287	α(K)=0.0199 3; α(L)=0.00662 10; α(M)=0.001672 24 α(N)=0.000435 7; α(O)=9.17×10 ⁻⁵ 13; α(P)=1.192×10 ⁻⁵ 17 Mult.: α(K)exp=0.016 7 in ²⁰⁵ Fr ε decay (2010De04).	
596.20	(7/2 ⁻)	564.7 [#] 2	100 [#]	31.40	(3/2 ⁻)	E2		0.0265	α(K)=0.0186 3; α(L)=0.00597 9; α(M)=0.001503 21 α(N)=0.000391 6; α(O)=8.25×10 ⁻⁵ 12; α(P)=1.078×10 ⁻⁵ 16 Mult.: α(K)exp=0.022 3 in ²⁰⁵ Fr ε decay (2010De04).	
		596.3 [#] 2	41 [#] 4	0.0	5/2 ⁻	M1		0.0939	α(K)=0.0763 11; α(L)=0.01343 19; α(M)=0.00318 5 α(N)=0.000828 12; α(O)=0.000181 3; α(P)=2.65×10 ⁻⁵ 4 Mult.: α(K)exp=0.069 9 in ²⁰⁵ Fr ε decay (2010De04).	
633.10	(7/2 ⁻)	633.1 [#] 2	100 [#]	0.0	5/2 ⁻	M1+E2	1.8 4	0.035 6	α(K)=0.027 6; α(L)=0.0060 8; α(M)=0.00146 17 α(N)=0.00038 5; α(O)=8.2×10 ⁻⁵ 10; α(P)=1.13×10 ⁻⁵ 16 Mult.: α(K)exp=0.027 3 in ²⁰⁵ Fr ε decay (2010De04). δ: From α(K)exp and briccmixing program.	
657.1	(13/2 ⁺)	657.1 [#] 5	100 [#]	0.0	5/2 ⁻	[M4]			α(K)=0.586 9; α(L)=0.224 4; α(M)=0.0593 9 α(N)=0.01571 23; α(O)=0.00337 5; α(P)=0.000458 7 E _γ : From ²⁰⁵ Fr ε decay (2010De04), based on the observed 558.7-keV ce line in coincidence with the Rn X rays.	
1049.1?	(7/2 ⁻ ,9/2 ⁻ ,11/2 ⁻)	503.8 [#] 2	100 [#]	545.30?	(7/2 ⁻ ,9/2 ⁻)	E2		0.0345	α(K)=0.0233 4; α(L)=0.00844 12; α(M)=0.00214 3 α(N)=0.000558 8; α(O)=0.0001171 17; α(P)=1.506×10 ⁻⁵ 22 Mult.: α(K)exp=0.022 5 in ²⁰⁵ Fr ε decay (2010De04).	
1157.3	(17/2 ⁺)	500.2 1	100	657.1	(13/2 ⁺)	E2		0.0351	α(K)=0.0236 4; α(L)=0.00863 12; α(M)=0.00219 3 α(N)=0.000571 8; α(O)=0.0001198 17; α(P)=1.539×10 ⁻⁵ 22 Mult.: DCO=1.09 7.	
1647.3	(21/2 ⁺)	490.0 1	100	1157.3	(17/2 ⁺)	E2		0.0369	α(K)=0.0246 4; α(L)=0.00921 13; α(M)=0.00234 4 α(N)=0.000610 9; α(O)=0.0001279 18; α(P)=1.639×10 ⁻⁵ 23 Mult.: DCO=1.09 7.	

Adopted Levels, Gammas (continued)

$\gamma(^{205}\text{Rn})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]	$\alpha^@$	Comments
2264.8	(25/2 ⁺)	617.5 1	100	1647.3	(21/2 ⁺)	E2	0.0217	$\alpha(\text{K})=0.01561$ 22; $\alpha(\text{L})=0.00461$ 7; $\alpha(\text{M})=0.001152$ 17 $\alpha(\text{N})=0.000300$ 5; $\alpha(\text{O})=6.35\times 10^{-5}$ 9; $\alpha(\text{P})=8.39\times 10^{-6}$ 12 Mult.: DCO=1.10 8.
2337.3	(21/2 ⁺)	1180.0 1	100	1157.3	(17/2 ⁺)	(E2)	0.00593	$\alpha(\text{K})=0.00471$ 7; $\alpha(\text{L})=0.000928$ 13; $\alpha(\text{M})=0.000223$ 4 $\alpha(\text{N})=5.80\times 10^{-5}$ 9; $\alpha(\text{O})=1.253\times 10^{-5}$ 18; $\alpha(\text{P})=1.766\times 10^{-6}$ 25; $\alpha(\text{IPF})=2.18\times 10^{-6}$ 3 Mult.: DCO=1.4 4.
2394.3	(23/2 ⁺)	129.0 5 746.9 1	100	2264.8 (25/2 ⁺) 1647.3 (21/2 ⁺)	[M1]	0.0519	$\alpha(\text{K})=0.0422$ 6; $\alpha(\text{L})=0.00738$ 11; $\alpha(\text{M})=0.001746$ 25 $\alpha(\text{N})=0.000455$ 7; $\alpha(\text{O})=9.96\times 10^{-5}$ 14; $\alpha(\text{P})=1.457\times 10^{-5}$ 21 Mult.: DCO=1.0 2.	
2453.8	(23/2 ⁺)	116.7 2	100	2337.3 (21/2 ⁺)	(M1)	8.46	$\alpha(\text{K})=6.83$ 11; $\alpha(\text{L})=1.245$ 19; $\alpha(\text{M})=0.296$ 5 $\alpha(\text{N})=0.0771$ 12; $\alpha(\text{O})=0.0169$ 3; $\alpha(\text{P})=0.00246$ 4 Mult.: DCO=1.2 9; $A_2=-0.37$.	
2624.0	(25/2 ⁺)	170.2 2	46 5	2453.8 (23/2 ⁺)	(M1)	2.90	$\alpha(\text{K})=2.34$ 4; $\alpha(\text{L})=0.423$ 6; $\alpha(\text{M})=0.1005$ 15 $\alpha(\text{N})=0.0262$ 4; $\alpha(\text{O})=0.00573$ 9; $\alpha(\text{P})=0.000837$ 12 Mult.: DCO=1.3 5; $A_2=-0.13$.	
		976.6 1	100 9	1647.3 (21/2 ⁺)	(E2)	0.00851	$\alpha(\text{K})=0.00663$ 10; $\alpha(\text{L})=0.001421$ 20; $\alpha(\text{M})=0.000345$ 5 $\alpha(\text{N})=8.97\times 10^{-5}$ 13; $\alpha(\text{O})=1.93\times 10^{-5}$ 3; $\alpha(\text{P})=2.68\times 10^{-6}$ 4 Mult.: DCO=1.3 2.	
2640.6	(25/2 ⁺)	375.9 1	100	2264.8 (25/2 ⁺)	[M1]	0.323	$\alpha(\text{K})=0.262$ 4; $\alpha(\text{L})=0.0466$ 7; $\alpha(\text{M})=0.01105$ 16 $\alpha(\text{N})=0.00288$ 4; $\alpha(\text{O})=0.000630$ 9; $\alpha(\text{P})=9.20\times 10^{-5}$ 13	
2781.9	(27/2 ⁺)	157.9 1	100 7	2624.0 (25/2 ⁺)	(M1)	3.58	$\alpha(\text{K})=2.89$ 4; $\alpha(\text{L})=0.524$ 8; $\alpha(\text{M})=0.1244$ 18 $\alpha(\text{N})=0.0324$ 5; $\alpha(\text{O})=0.00710$ 10; $\alpha(\text{P})=0.001036$ 15 Mult.: DCO=0.72 16; $A_2=-0.27$.	
		328.2 3	49.1	2453.8 (23/2 ⁺)	[E2]	0.1059	$\alpha(\text{K})=0.0567$ 8; $\alpha(\text{L})=0.0366$ 6; $\alpha(\text{M})=0.00956$ 14 $\alpha(\text{N})=0.00249$ 4; $\alpha(\text{O})=0.000514$ 8; $\alpha(\text{P})=6.23\times 10^{-5}$ 9	
2803.9	(27/2 ⁺)	163.6 2	25 6	2640.6 (25/2 ⁺)	[M1]	3.24	$\alpha(\text{K})=2.62$ 4; $\alpha(\text{L})=0.473$ 7; $\alpha(\text{M})=0.1125$ 17 $\alpha(\text{N})=0.0293$ 5; $\alpha(\text{O})=0.00641$ 10; $\alpha(\text{P})=0.000937$ 14	
		409.5 1	100	2394.3 (23/2 ⁺)	(E2)	0.0578	$\alpha(\text{K})=0.0355$ 5; $\alpha(\text{L})=0.01661$ 24; $\alpha(\text{M})=0.00428$ 6 $\alpha(\text{N})=0.001115$ 16; $\alpha(\text{O})=0.000232$ 4; $\alpha(\text{P})=2.90\times 10^{-5}$ 4 Mult.: DCO=0.8 2.	
2903.1	(29/2 ⁺)	121.2 1	100	2781.9 (27/2 ⁺)	(M1)	7.60	$\alpha(\text{K})=6.13$ 9; $\alpha(\text{L})=1.116$ 16; $\alpha(\text{M})=0.265$ 4 $\alpha(\text{N})=0.0691$ 10; $\alpha(\text{O})=0.01513$ 22; $\alpha(\text{P})=0.00221$ 4 Mult.: DCO=1.4 4; $A_2=-0.42$.	
2933.8	(29/2 ⁺)	669.0 1	100	2264.8 (25/2 ⁺)	E2	0.0183	$\alpha(\text{K})=0.01339$ 19; $\alpha(\text{L})=0.00369$ 6; $\alpha(\text{M})=0.000916$ 13 $\alpha(\text{N})=0.000239$ 4; $\alpha(\text{O})=5.06\times 10^{-5}$ 7; $\alpha(\text{P})=6.76\times 10^{-6}$ 10 Mult.: DCO=1.04 17.	
3151.1	(31/2 ⁺)	248.0 1	100	2903.1 (29/2 ⁺)	(M1)	1.010	$\alpha(\text{K})=0.817$ 12; $\alpha(\text{L})=0.1468$ 21; $\alpha(\text{M})=0.0348$ 5 $\alpha(\text{N})=0.00908$ 13; $\alpha(\text{O})=0.00199$ 3; $\alpha(\text{P})=0.000290$ 4 Mult.: DCO=0.59 9; $A_2=-0.36$.	
3244.1	(31/2 ⁺)	440.2 1	100	2803.9 (27/2 ⁺)	[E2]	0.0480	$\alpha(\text{K})=0.0306$ 5; $\alpha(\text{L})=0.01303$ 19; $\alpha(\text{M})=0.00334$ 5	

Adopted Levels, Gammas (continued) $\gamma(^{205}\text{Rn})$ (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>
3499.3	(33/2 ⁺)	565.5 1	100	2933.8 (29/2 ⁺)	(E2)	0.0264	$\alpha(\text{N})=0.000870$ 13; $\alpha(\text{O})=0.000182$ 3; $\alpha(\text{P})=2.29\times 10^{-5}$ 4 Mult.: DCO=0.9 2.	
3518.8	(33/2 ⁺)	367.7 1	100	3151.1 (31/2 ⁺)	(M1)	0.343	$\alpha(\text{K})=0.0185$ 3; $\alpha(\text{L})=0.00594$ 9; $\alpha(\text{M})=0.001496$ 21 $\alpha(\text{N})=0.000390$ 6; $\alpha(\text{O})=8.22\times 10^{-5}$ 12; $\alpha(\text{P})=1.073\times 10^{-5}$ 15 Mult.: DCO=1.9 6.	
3821.2	(35/2 ⁺)	302.4 1	100	3518.8 (33/2 ⁺)	(M1)	0.584	$\alpha(\text{K})=0.278$ 4; $\alpha(\text{L})=0.0495$ 7; $\alpha(\text{M})=0.01173$ 17 $\alpha(\text{N})=0.00306$ 5; $\alpha(\text{O})=0.000669$ 10; $\alpha(\text{P})=9.78\times 10^{-5}$ 14 Mult.: DCO=0.81 17; A ₂ =-0.48.	
4109.4	(37/2 ⁺)	288.2 1	100	3821.2 (35/2 ⁺)	(M1)	0.667	$\alpha(\text{K})=0.473$ 7; $\alpha(\text{L})=0.0847$ 12; $\alpha(\text{M})=0.0201$ 3 $\alpha(\text{N})=0.00523$ 8; $\alpha(\text{O})=0.001145$ 16; $\alpha(\text{P})=0.0001673$ 24 Mult.: DCO=0.61 16; A ₂ =-0.35.	
4187.7?	(37/2 ⁺)	688.7 ^{&} 2	100	3499.3 (33/2 ⁺)	[E2]	0.01719	$\alpha(\text{K})=0.540$ 8; $\alpha(\text{L})=0.0967$ 14; $\alpha(\text{M})=0.0229$ 4 $\alpha(\text{N})=0.00598$ 9; $\alpha(\text{O})=0.001308$ 19; $\alpha(\text{P})=0.000191$ 3 Mult.: A ₂ =-0.34.	
4247.3	(37/2 ⁺)	426.1 1	100	3821.2 (35/2 ⁺)	[M1]	0.230	$\alpha(\text{K})=0.01267$ 18; $\alpha(\text{L})=0.00341$ 5; $\alpha(\text{M})=0.000845$ 12 $\alpha(\text{N})=0.000220$ 3; $\alpha(\text{O})=4.68\times 10^{-5}$ 7; $\alpha(\text{P})=6.26\times 10^{-6}$ 9	
4310.7	(39/2 ⁺)	201.3 1	100	4109.4 (37/2 ⁺)	(M1)	1.81	$\alpha(\text{K})=0.187$ 3; $\alpha(\text{L})=0.0331$ 5; $\alpha(\text{M})=0.00785$ 11 $\alpha(\text{N})=0.00205$ 3; $\alpha(\text{O})=0.000448$ 7; $\alpha(\text{P})=6.54\times 10^{-5}$ 10	
4716.5	(41/2 ⁺)	405.8 1	100	4310.7 (39/2 ⁺)	[M1]	0.263	$\alpha(\text{K})=1.461$ 21; $\alpha(\text{L})=0.263$ 4; $\alpha(\text{M})=0.0625$ 9 $\alpha(\text{N})=0.01630$ 23; $\alpha(\text{O})=0.00357$ 5; $\alpha(\text{P})=0.000521$ 8 Mult.: DCO=0.60 21; A ₂ =-0.26.	
								$\alpha(\text{K})=0.213$ 3; $\alpha(\text{L})=0.0378$ 6; $\alpha(\text{M})=0.00897$ 13 $\alpha(\text{N})=0.00234$ 4; $\alpha(\text{O})=0.000511$ 8; $\alpha(\text{P})=7.47\times 10^{-5}$ 11

† From ¹⁷⁰Er(⁴⁰Ar,5n γ), unless otherwise stated.

‡ From the measured angular distributions, DCO ratios and the apparent band structures in ¹⁷⁰Er(⁴⁰Ar,5n γ), and $\alpha(\text{K})$ exp in ²⁰⁵Fr ϵ decay.

From ²⁰⁵Fr ϵ decay.

@ [Additional information 1.](#)

& Placement of transition in the level scheme is uncertain.

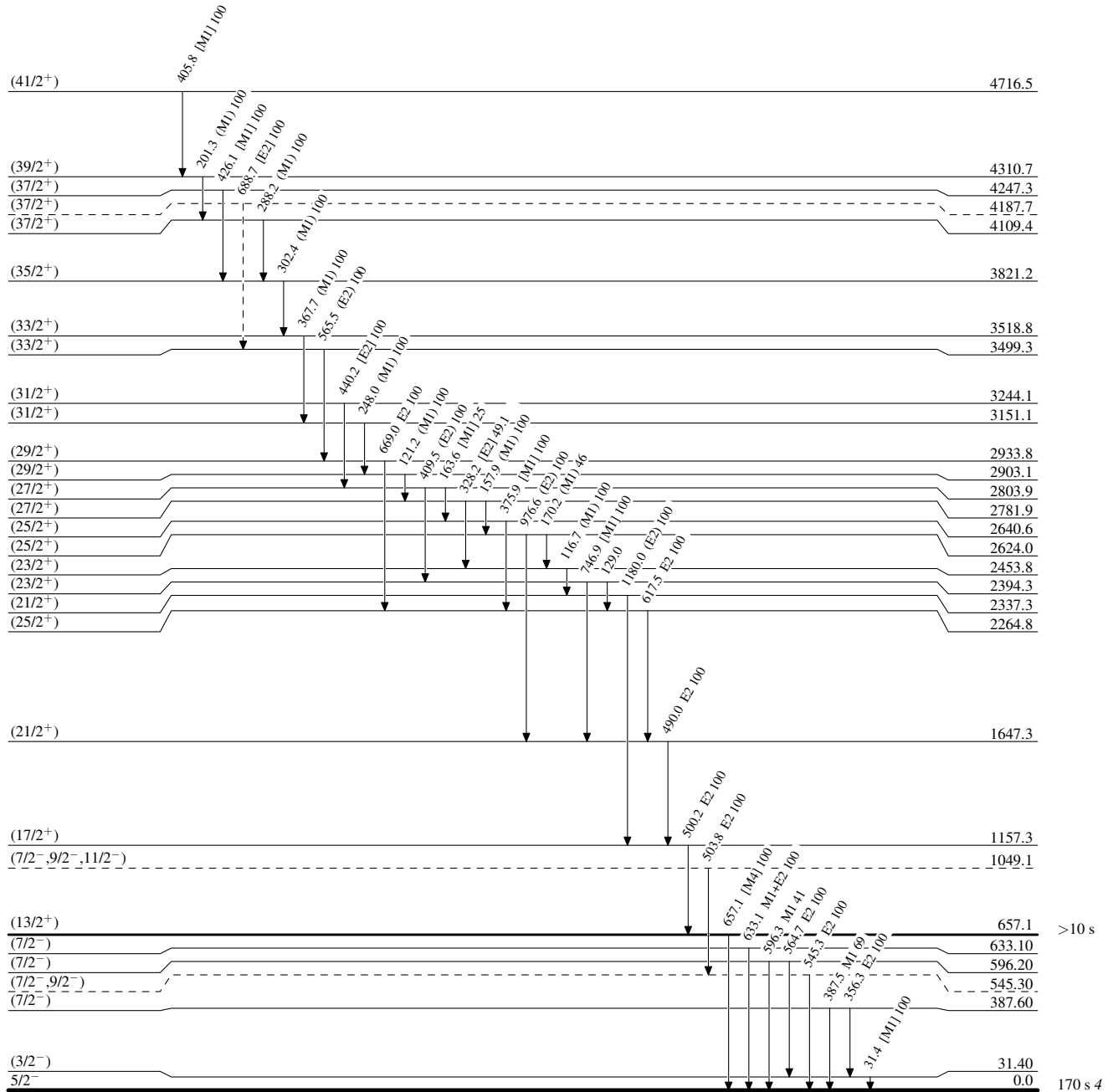
Adopted Levels, Gammas

Legend

Level Scheme

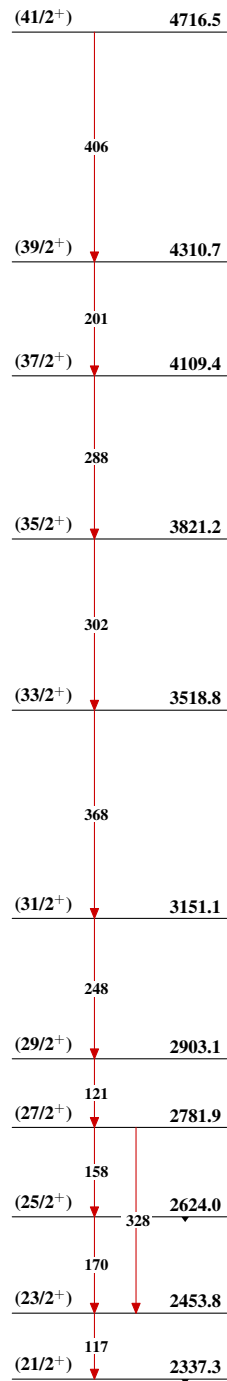
Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



Adopted Levels, Gammas

Band(A): Configuration=
 $\nu(i_{13/2}^{-1}) \otimes \pi(i_{13/2}^{+2})$, weakly
 oblate band



Band(B): Structure
 associated with the
 2394-keV level

