

^{195}Hg ε decay (10.53 h) [1973Vi09](#),[1974Fa06](#),[1971Fr03](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 121, 395 (2014)	1-Mar-2014

Parent: ^{195}Hg : $E=0.0$; $J^\pi=1/2^-$; $T_{1/2}=10.53$ h 3; $Q(\varepsilon)=1570$ 23; $\% \varepsilon + \% \beta^+$ decay=100.0

Others: [1955Jo22](#), [1958Br88](#), [1966Ha47](#), [1967Fr05](#), [1970Ca07](#), [1970Fo08](#).

Sources produced by $^{194}\text{Pt}(^3\text{He},2n)$ ([1971Fr03](#)), $^{196}\text{Hg}(\gamma,n)$ ([1974Fa06](#)), $^{197}\text{Au}(p,3n)$ ([1973Vi09](#)), daughter ^{195}Tl ([1955Kn34](#)).

[1973Vi09](#): $E\gamma$, $I\gamma$, Ice, $\gamma\gamma$ -coin measured with a double focusing π 2*1/2 spectrometer and Si(Li) or Ge(Li). Interpreted with the intermediate coupling models.

[1974Fa06](#): $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin measured with Ge(Li) and Si(Li). Interpreted with core-excitation model.

[1971Fr03](#): $E\gamma$, $I\gamma$, $E(\text{ce})$, Ice, $\gamma\gamma$ -coin measured with Ge(Li) and Si(Li).

Energy balance: total decay energy of 1538 keV 170 deduced (using RADLIST code) from proposed decay scheme is in agreement with the expected value of 1579 keV 23, suggesting that the decay scheme is reasonably complete.

cascade	$\gamma\gamma(\theta)$		directional correlation measurements (1970Ca07)		spin sequence		δ
	A_2		A_4				
585 γ -207 γ	+0.060	16	-0.010	17	3/2(Q)7/2(Q)11/2		
600 γ -180 γ	+0.170	23	+0.002	25	1/2(D+Q)3/2(D)1/2	-0.08 3	or +2.1 2
					3/2(D+Q)3/2(D)1/2	+0.55 6	or +3.9 7
931 γ -180 γ	+0.220	50	-0.050	60	1/2(D+Q)3/2(D)1/2	-0.02 6	or +1.8 3
					3/2(D+Q)3/2(D)1/2	+0.7 2	or +2.7 10

 ^{195}Au Levels

E(level) [†]	J^π [‡]	$T_{1/2}$ [‡]	E(level) [†]	J^π [‡]
0.0	3/2 ⁺	186.01 d 6	1082.93 6	3/2 ⁺
61.434 24	1/2 ⁺	3.0 [#] ns 2	1110.78 7	3/2 ⁻
241.56 4	3/2 ⁺	<30 [#] ps	1172.44 6	3/2 ⁺
261.79 3	5/2 ⁺	54 [#] ps 10	1250.96 10	(3/2 ⁺),5/2 ⁺
318.58 4	11/2 ⁻	30.5 s 2	1324.64 20	1/2,3/2,5/2 ⁺
439.53 9	3/2 ⁺ ,5/2 ⁺		1353.61 24	3/2 ⁺
525.67 6	7/2 ⁻		1433.0? 3	1/2,3/2,5/2 ⁺
778.22? 19			1443.16 25	1/2,3/2
841.23 4	3/2 ⁺			

[†] From scheme and $E\gamma$ using least-squares fit to data.

[‡] From Adopted Levels, except as noted.

[#] From delay coin ([1970Fo08](#)).

 ε, β^+ radiations

E(decay)	E(level)	$I\varepsilon$ ^{†‡}	Log ft	$I(\varepsilon + \beta^+)$ ^{†‡}	Comments
(127 23)	1443.16	0.014 4	7.5 4	0.014 4	$\varepsilon K=0.42$ 20; $\varepsilon L=0.42$ 14; $\varepsilon M+=0.16$ 7
(137 [#] 23)	1433.0?	0.0027 7	8.3 3	0.0027 7	$\varepsilon K=0.48$ 16; $\varepsilon L=0.38$ 11; $\varepsilon M+=0.14$ 5
(216 23)	1353.61	0.023 5	8.03 17	0.023 5	$\varepsilon K=0.67$ 3; $\varepsilon L=0.247$ 22; $\varepsilon M+=0.087$ 9
(245 23)	1324.64	0.008 2	8.64 16	0.008 2	$\varepsilon K=0.692$ 21; $\varepsilon L=0.228$ 15; $\varepsilon M+=0.080$ 6
(319 23)	1250.96	0.095 16	7.86 11	0.095 16	$\varepsilon K=0.731$ 10; $\varepsilon L=0.200$ 7; $\varepsilon M+=0.068$ 3
(398 23)	1172.44	3.3 5	6.55 9	3.3 5	$\varepsilon K=0.753$ 6; $\varepsilon L=0.185$ 4; $\varepsilon M+=0.0622$ 15
(459 23)	1110.78	2.1 3	6.90 9	2.1 3	$\varepsilon K=0.764$ 4; $\varepsilon L=0.177$ 3; $\varepsilon M+=0.0591$ 11
(487 23)	1082.93	0.94 13	7.31 8	0.94 13	$\varepsilon K=0.768$ 4; $\varepsilon L=0.1742$ 23; $\varepsilon M+=0.0580$ 9

Continued on next page (footnotes at end of table)

^{195}Hg ε decay (10.53 h) [1973Vi09](#),[1974Fa06](#),[1971Fr03](#) (continued) ε, β^+ radiations (continued)

E(decay)	E(level)	$I\beta^+$ [‡]	$I\varepsilon$ ^{†‡}	Log ft	$I(\varepsilon + \beta^+)$ ^{†‡}	Comments
(729 23)	841.23		9.4 11	6.70 6	9.4 11	$\varepsilon K=0.7871$ 12; $\varepsilon L=0.1603$ 9; $\varepsilon M+=0.0526$ 4
(1130 23)	439.53		0.093 18	9.76 ^{1u} 10	0.093 18	$\varepsilon K=0.7749$ 11; $\varepsilon L=0.1690$ 8; $\varepsilon M+=0.0561$ 4
(1328 23)	241.56		1.9 4	7.96 10	1.9 4	$\varepsilon K=0.8024$ 3; $\varepsilon L=0.14920$ 23; $\varepsilon M+=0.04826$ 9
(1509 23)	61.434	0.053 14	71 11	6.50 7	71 11	av $E\beta=240$ 11; $\varepsilon K=0.8040$ 2; $\varepsilon L=0.14759$ 20; $\varepsilon M+=0.04765$ 8
(1570 23)	0.0	0.012 3	10.0 20	7.39 9	10.0 20	av $E\beta=267$ 11; $\varepsilon K=0.8042$; $\varepsilon L=0.14709$ 19; $\varepsilon M+=0.04746$ 7

[†] From $I(\gamma+ce)$ intensity imbalance from each level. $I\varepsilon/I(\varepsilon+\beta^+)$ is calculated by LOGFT code.

[‡] Absolute intensity per 100 decays.

[#] Existence of this branch is questionable.

$\gamma(^{195}\text{Au})$

I_γ normalization: Assuming $I(\varepsilon+\beta^+ \text{ to g.s.})=10\% +10-5$ based on $\log ft=7.3$ for analogous transitions in A=193,197,199, γ +ce feeding to g.s. would lie in the range 80% to 95%. A γ +ce g.s. feeding of 88% is adopted.

E_γ [†]	I_γ ^{&e}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^b	δ	α [†]	$I_{(\gamma+ce)}$ ^e	Comments
56.80 3	0.0091 11	318.58	11/2 ⁻	261.79	5/2 ⁺	E3 ^c		3.29×10^3	30.7 35	ce(L)/(γ +ce)=0.722 8; ce(M)/(γ +ce)=0.215 4; ce(N+)/(γ +ce)=0.0625 13 $I_{(\gamma+ce)}$: from adopted branching ratio and intensity balance at 318 level. I_γ : from $I(\gamma+ce)/(1+\alpha)$. Other $I_\gamma=0.003$ 2 (1974Fa06).
61.46 3	91 6	61.434	1/2 ⁺	0.0	3/2 ⁺	M1+E2 ^c	0.45 1	12.2 3		$\alpha(L)=9.26$ 23; $\alpha(M)=2.31$ 6; $\alpha(N+..)=0.668$ 17
180.11 4	27.9 13	241.56	3/2 ⁺	61.434	1/2 ⁺	M1+E2	≈ 0.16	1.342		$\alpha(K)=1.097$; $\alpha(L)=0.188$; $\alpha(M)=0.0437$; $\alpha(N+..)=0.01302$ α : $\alpha(K)_{\text{exp}}=1.18$ 11, $\alpha(K)_{\text{exp}}/\alpha(L)_{\text{exp}}=6.3$ 3 other $\alpha(K)_{\text{exp}}$: 1.10 6 (1971Fr03), 0.96 10 (1970Ca07). δ : from $\alpha(L)_{\text{exp}}:\alpha(L)_{\text{exp}}:\alpha(L)_{\text{exp}}=100$ 9:11.5 14:2.4 7 (1973Vi09), 100:11.8 18: ≈ 2 (1971Fr03). $\alpha(K)=0.1690$ 24; $\alpha(L)=0.1526$ 22; $\alpha(M)=0.0392$ 6; $\alpha(N+..)=0.01125$ 16 $\alpha(K)=0.1557$ 22; $\alpha(L)=0.1329$ 19; $\alpha(M)=0.0341$ 5; $\alpha(N+..)=0.00979$ 14 $\alpha(K)=0.1728$; $\alpha(L)=0.0727$; $\alpha(M)=0.0182$; $\alpha(N+..)=0.00527$ δ : from $\alpha(K)_{\text{exp}}=0.18$ 5. ce(K)/(γ +ce)=0.235 3; ce(L)/(γ +ce)=0.0443 7; ce(M)/(γ +ce)=0.01044 16; ce(N+)/(γ +ce)=0.00309 5 ce(K)/(γ +ce)=0.490 7; ce(L)/(γ +ce)=0.318 5; ce(M)/(γ +ce)=0.0872 16; ce(N+)/(γ +ce)=0.0261 5 $I_{(\gamma+ce)}$: from adopted branching ratio and intensity balance at 318 level. I_γ : from $I(\gamma+ce)/(1+\alpha)$. Others: 0.016 3 (1966Ha47), 0.022 11 (1974Fa06).
200.38 4	0.51 5	261.79	5/2 ⁺	61.434	1/2 ⁺	E2 ^c		0.372		
207.10 4	23.1 26	525.67	7/2 ⁻	318.58	11/2 ⁻	E2		0.333		
241.50 10	1.01 16	241.56	3/2 ⁺	0.0	3/2 ⁺	E2+M1	≈ 2.2	0.269		
261.75 4	22.3 38	261.79	5/2 ⁺	0.0	3/2 ⁺	M1+E2 ^c	0.51 1	0.415 7	31.9	
318.60 10	0.0127 20	318.58	11/2 ⁻	0.0	3/2 ⁺	M4 ^c		11.67	0.165 26	
^x 330.5 3	0.19 ^a 4									

γ(¹⁹⁵Au) (continued)

E_γ [†]	I_γ ^{&e}	E_i (level)	J_i^π	E_f	J_f^π	Mult. ^b	δ	α [†]	Comments
360.2 3	0.18 ^a 4	1443.16	1/2,3/2	1082.93	3/2 ⁺				
401.74 [@] 15	0.071 24	841.23	3/2 ⁺	439.53	3/2 ⁺ ,5/2 ⁺	[M1+E2] ^d		0.10 6	$\alpha(K)=0.08$ 5; $\alpha(L)=0.016$ 5; $\alpha(M)=0.0037$ 11; $\alpha(N+..)=0.0011$ 4
439.50 15	1.82 16	439.53	3/2 ⁺ ,5/2 ⁺	0.0	3/2 ⁺	M1		0.1189	$\alpha(K)=0.0981$ 14; $\alpha(L)=0.01602$ 23; $\alpha(M)=0.00371$ 6; $\alpha(N+..)=0.001105$ 16 $\alpha(K)_{\text{exp}}=0.118$ 26.
546.40 23	0.018 8	1324.64	1/2,3/2,5/2 ⁺	778.22?					
585.13 5	29.2 11	1110.78	3/2 ⁻	525.67	7/2 ⁻	E2		0.01781	$\alpha(K)=0.01346$ 19; $\alpha(L)=0.00332$ 5; $\alpha(M)=0.000802$ 12; $\alpha(N+..)=0.000235$ 4 α : $\alpha(K)_{\text{exp}}=0.0112$ 11, $\alpha(L)_{\text{exp}}=0.0040$ 7, $E(L1+L2)C/\alpha(L3)_{\text{exp}}=7.3$ 20; other $\alpha(K)_{\text{exp}}$: 0.015 2 (1971Fr03), 0.011 1 (1970Ca07,1966Ha47).
599.66 4	26.2 9	841.23	3/2 ⁺	241.56	3/2 ⁺	M1+E2	+0.55 6	0.0443 16	$\alpha(K)=0.0363$ 13; $\alpha(L)=0.00611$ 18; $\alpha(M)=0.00142$ 4; $\alpha(N+..)=0.000422$ 12 α : $\alpha(K)_{\text{exp}}=0.042$ 4, $\alpha(K)_{\text{exp}}/\alpha(L12)_{\text{exp}}=6.1$ 6. Other $\alpha(K)_{\text{exp}}$: 0.048 7 (1971Fr03), 0.043 4 (1970Ca07,1966Ha47). δ : from $A_2=+0.170$ 23 (1970Ca07). Other $\delta \approx 0.33$ from $\alpha(K)_{\text{exp}}=0.042$.
671.13 25	0.35 4	1110.78	3/2 ⁻	439.53	3/2 ⁺ ,5/2 ⁺	[E1] ^d		0.00470	$\alpha(K)=0.00392$ 6; $\alpha(L)=0.000597$ 9; $\alpha(M)=0.0001369$ 20; $\alpha(N+..)=4.05 \times 10^{-5}$ 6
716.79 [#] 23	0.12 5	778.22?		61.434	1/2 ⁺				
778.0 [#] 6	0.009 4	778.22?		0.0	3/2 ⁺				
779.80 5	100	841.23	3/2 ⁺	61.434	1/2 ⁺	M1		0.0267	$\alpha(K)=0.0221$ 3; $\alpha(L)=0.00354$ 5; $\alpha(M)=0.000817$ 12; $\alpha(N+..)=0.000243$ 4 α : $\alpha(K)_{\text{exp}}=0.0245$ 24, $\alpha(K)_{\text{exp}}/\alpha(L12)_{\text{exp}}=6.6$ 8; other $\alpha(K)_{\text{exp}}$: 0.022 2 (1971Fr03), 0.020 2 (1970Ca07,1966Ha47).
811.40 15	0.27 9	1250.96	(3/2 ⁺),5/2 ⁺	439.53	3/2 ⁺ ,5/2 ⁺	(M1)		0.0241	$\alpha(K)=0.0199$ 3; $\alpha(L)=0.00319$ 5; $\alpha(M)=0.000737$ 11; $\alpha(N+..)=0.000220$ 3 I_γ : authors quote 0.272 9. The evaluator assumes that the uncertainty is a misprint.
821.08 10	4.3 4	1082.93	3/2 ⁺	261.79	5/2 ⁺	M1(+E2)		0.016 8	$\alpha(K)_{\text{exp}}=0.04$ 2 (1971Fr03). $\alpha(K)=0.013$ 7; $\alpha(L)=0.0022$ 9; $\alpha(M)=0.00052$ 20; $\alpha(N+..)=0.00015$ 6 α : $\alpha(K)_{\text{exp}}=0.0182$ 30, $\alpha(L1)_{\text{exp}}+\alpha(L2)_{\text{exp}}=0.0043$ 13; other $\alpha(K)_{\text{exp}}$: 0.0165 25 (1971Fr03), 0.021 2 (1970Ca07,1966Ha47).
841.27 ^f 10	4.0 ^f 9	841.23	3/2 ⁺	0.0	3/2 ⁺	M1,E2		0.015 7	$\alpha(K)=0.012$ 6; $\alpha(L)=0.0021$ 9; $\alpha(M)=0.00049$ 19; $\alpha(N+..)=0.00014$ 6

$\gamma(^{195}\text{Au})$ (continued)

E_γ [†]	I_γ ^{&e}	E_i (level)	J_i^π	E_f	J_f^π	Mult. ^b	δ	α [†]	Comments
841.27 ^f 10	5.3 ^f 9	1082.93	3/2 ⁺	241.56	3/2 ⁺	M1,E2		0.015 7	α : doublet $\alpha(\text{K})_{\text{exp}}=0.0121$ 23, $\alpha(\text{L1})_{\text{exp}}+\alpha(\text{L2})_{\text{exp}}=0.0029$ 7; other $\alpha(\text{K})_{\text{exp}}$: 0.010 2 (1970Ca07,1971Fr03,1966Ha47). $\alpha(\text{K})=0.012$ 6; $\alpha(\text{L})=0.0021$ 9; $\alpha(\text{M})=0.00049$ 19; $\alpha(\text{N}+..)=0.00014$ 6 I_γ : doublet apportioned via $\gamma\gamma$ -coin is inconsistent; $I_\gamma(841\gamma$ to g.s.)=43% (1974Fa06,1971Fr03), 61% (1973Vi09,1970Ca07) of I_γ composite.
^x 861.0 4	0.07 ^a 2								
868.9 3	0.051 19	1110.78	3/2 ⁻	241.56	3/2 ⁺	[E1] ^d		0.00286	$\alpha(\text{K})=0.00240$ 4; $\alpha(\text{L})=0.000358$ 5; $\alpha(\text{M})=8.20\times 10^{-5}$ 12; $\alpha(\text{N}+..)=2.43\times 10^{-5}$ 4
910.63 15	0.92 17	1172.44	3/2 ⁺	261.79	5/2 ⁺	M1+E2	≈ 1.4	0.01064	$\alpha(\text{K})=0.00869$; $\alpha(\text{L})=0.001501$; $\alpha(\text{M})=0.000350$; $\alpha(\text{N}+..)=0.0001038$ I_γ : authors quote 0.921 17. The evaluator assumes that the uncertainty is a misprint. $\alpha(\text{K})_{\text{exp}}=0.0088$ 23. δ : from $\alpha(\text{K})_{\text{exp}}$.
930.90 7	6.2 5	1172.44	3/2 ⁺	241.56	3/2 ⁺	M1+E2	+0.7 2	0.0136 14	$\alpha(\text{K})=0.0112$ 12; $\alpha(\text{L})=0.00183$ 17; $\alpha(\text{M})=0.00042$ 4; $\alpha(\text{N}+..)=0.000126$ 11 α : $\alpha(\text{K})_{\text{exp}}=0.0118$ 24, $\alpha(\text{L1})_{\text{exp}}+\alpha(\text{L2})_{\text{exp}}=0.0021$ 6 (1973Vi09); other $\alpha(\text{K})_{\text{exp}}$: 0.0072 14 (1971Fr03), 0.0079 8 (1970Ca07,1966Ha47). δ : from $A_2=+0.22$ 5 (1970Ca07). Other $\delta\approx 0.66$ from $\alpha(\text{K})_{\text{exp}}=0.0118$ 2.
989.15 20	0.16 6	1250.96	(3/2 ⁺),5/2 ⁺	261.79	5/2 ⁺				
1009.35 20	0.40 8	1250.96	(3/2 ⁺),5/2 ⁺	241.56	3/2 ⁺	(M1)		0.01380	$\alpha(\text{K})=0.01144$ 16; $\alpha(\text{L})=0.00182$ 3; $\alpha(\text{M})=0.000420$ 6; $\alpha(\text{N}+..)=0.0001251$ 18 $\alpha(\text{K})_{\text{exp}}=0.018$ 8.
1021.56 7	2.75 28	1082.93	3/2 ⁺	61.434	1/2 ⁺	M1		0.01339	$\alpha(\text{K})=0.01109$ 16; $\alpha(\text{L})=0.001764$ 25; $\alpha(\text{M})=0.000407$ 6; $\alpha(\text{N}+..)=0.0001213$ 17 $\alpha(\text{K})_{\text{exp}}=0.0114$ 28, $\alpha(\text{L1})_{\text{exp}}+\alpha(\text{L2})_{\text{exp}}=0.0025$ 11; other $\alpha(\text{K})_{\text{exp}}$: 0.007 3 (1971Fr03), 0.0077 16 (1970Ca07,1966Ha47).
1049.27 25	0.29 9	1110.78	3/2 ⁻	61.434	1/2 ⁺	[E1] ^d		0.00203	$\alpha(\text{K})=0.00170$; $\alpha(\text{L})=0.00025$
1082.90 20	1.02 13	1082.93	3/2 ⁺	0.0	3/2 ⁺	(E2)		0.00492	$\alpha(\text{K})=0.00399$ 6; $\alpha(\text{L})=0.000712$ 10; $\alpha(\text{M})=0.0001667$ 24; $\alpha(\text{N}+..)=4.93\times 10^{-5}$ 7 α : $\alpha(\text{K})_{\text{exp}}=0.0048$ 23.
1091.7 4	0.11 5	1353.61	3/2 ⁺	261.79	5/2 ⁺	[M1+E2] ^d		0.008 4	$\alpha(\text{K})=0.007$ 3; $\alpha(\text{L})=0.0011$ 4; $\alpha(\text{M})=0.00025$ 9; $\alpha(\text{N}+..)=8.E-5$ 3
1111.04 10	21.2 19	1172.44	3/2 ⁺	61.434	1/2 ⁺	M1		0.01082	$\alpha(\text{K})=0.00897$ 13; $\alpha(\text{L})=0.001423$ 20; $\alpha(\text{M})=0.000328$ 5; $\alpha(\text{N}+..)=9.83\times 10^{-5}$ 14 α : $\alpha(\text{K})_{\text{exp}}=0.0110$ 13, $\alpha(\text{L1})_{\text{exp}}+\alpha(\text{L2})_{\text{exp}}=0.0020$ 3 (1973Vi09); other $\alpha(\text{K})_{\text{exp}}$: 0.0074 14 (1971Fr03), 0.0092 10 (1970Ca07,1966Ha47).

¹⁹⁵Hg ε decay (10.53 h) 1973Vi09,1974Fa06,1971Fr03 (continued)

γ(¹⁹⁵Au) (continued)

E _γ [‡]	I _γ ^{&e}	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. ^b	α [†]	Comments
1172.38 10	18.3 16	1172.44	3/2 ⁺	0.0	3/2 ⁺	M1	0.00945	α(K)=0.00784 11; α(L)=0.001241 18; α(M)=0.000286 4; α(N+..)=8.88×10 ⁻⁵ 13 α: α(K)exp=0.0090 3, α(L1)exp+α(L2)exp=0.0013 3 (1973Vi09); other α(K)exp: 0.0061 12 (1971Fr03), 0.0071 14 (1970Ca07,1966Ha47).
1189.5 3	0.31 6	1250.96	(3/2 ⁺),5/2 ⁺	61.434	1/2 ⁺			
1251.14 25	0.21 4	1250.96	(3/2 ⁺),5/2 ⁺	0.0	3/2 ⁺			
1263.2 3	0.071 20	1324.64	1/2,3/2,5/2 ⁺	61.434	1/2 ⁺			
1292.2 4	0.072 16	1353.61	3/2 ⁺	61.434	1/2 ⁺	[M1+E2] ^d	0.0055 20	α(K)=0.0045 17; α(L)=0.00073 25; α(M)=0.00017 6; α(N+..)=7.0×10 ⁻⁵ 22
1324.7 4	0.021 7	1324.64	1/2,3/2,5/2 ⁺	0.0	3/2 ⁺			
^x 1339.8 5	0.007 ^a 3							
1353.7 4	0.145 32	1353.61	3/2 ⁺	0.0	3/2 ⁺	[M1+E2] ^d	0.0049 17	α(K)=0.0040 15; α(L)=0.00065 21; α(M)=0.00015 5; α(N+..)=7.9×10 ⁻⁵ 23
^x 1368.3 4	0.019 ^a 5							
1372.0 4	0.026 ^a 7	1433.0?	1/2,3/2,5/2 ⁺	61.434	1/2 ⁺			
1432.6 4	0.012 ^a 4	1433.0?	1/2,3/2,5/2 ⁺	0.0	3/2 ⁺			
1443.2 4	0.014 ^a 4	1443.16	1/2,3/2	0.0	3/2 ⁺			

[†] α(K)exp, α(L)exp, ce-ratios are from 1973Vi09, except as noted.

[‡] From high-resolution ce and photon studies (1973Vi09), except as noted.

From 1974Fa06.

@ From 1971Fr03.

& Relative photon intensity normalized to I_γ(E_γ=779.80)=100. Values are from 1974Fa06, except as noted.

^a From 1973Vi09.

^b Deduced from α(K)exp, α(L)exp, L-subshell ratios (1973Vi09).

^c Deduced from α(K)exp, α(L)exp, L- and M-subshell ratios (41.6-h ¹⁹⁵Hg decay).

^d Deduced from ΔJ and Δπ.

^e For absolute intensity per 100 decays, multiply by 0.070 8.

^f Multiply placed with intensity suitably divided.

^x γ ray not placed in level scheme.

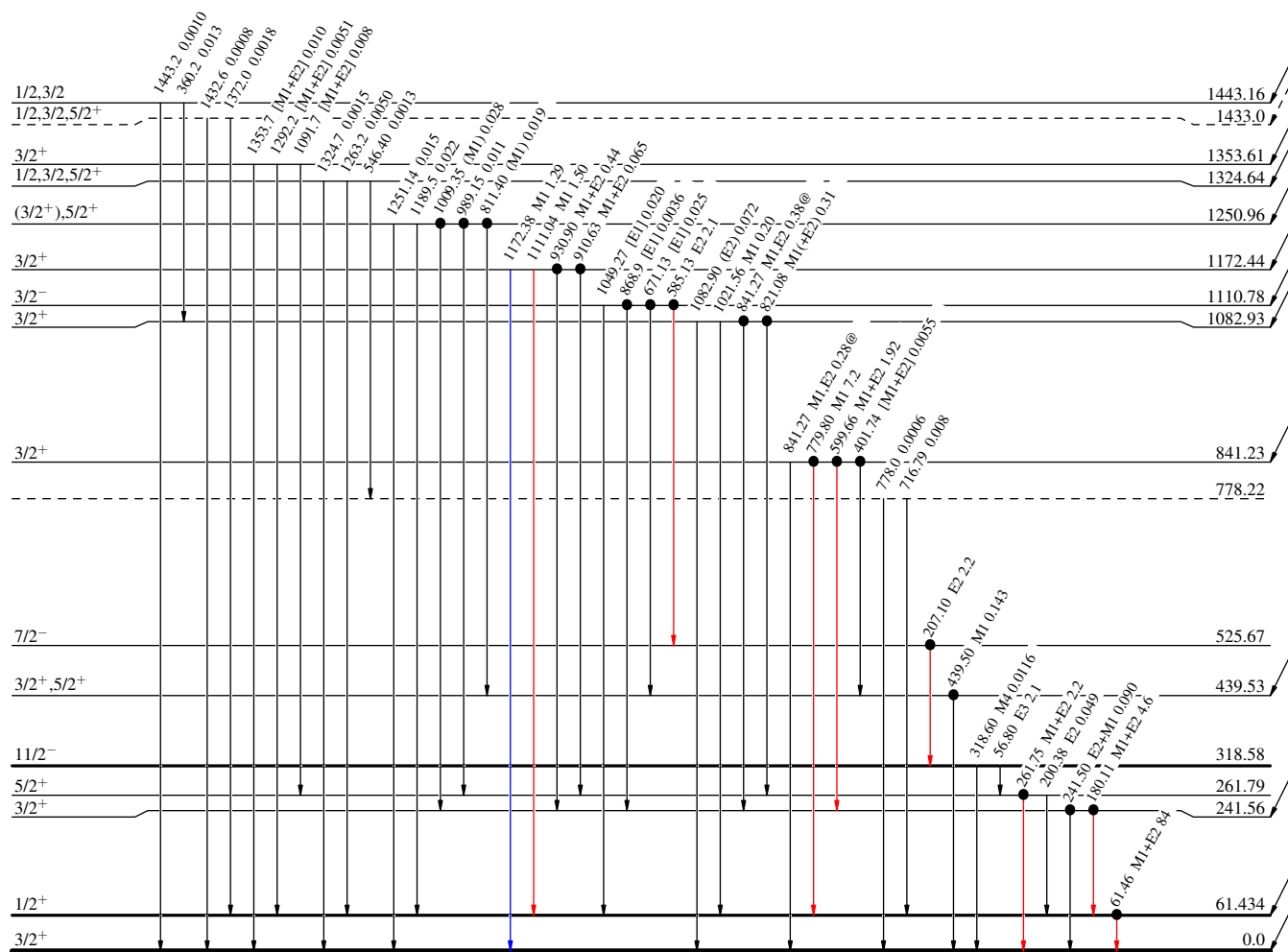
Decay Scheme

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- Coincidence

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
 @ Multiply placed: intensity suitably divided

$^{195}\text{Hg}_{115}$
 $1/2^-$ 0.0 10.53 h 3
 $Q_\epsilon = 1570.23$
 $\% \epsilon + \% \beta^+ = 100$



$I\beta^+$	$I\epsilon$	Log ft
0.014	7.5	
0.0027	8.3	
0.023	8.03	
0.008	8.64	
0.095	7.86	
3.3	6.55	
2.1	6.90	
0.94	7.31	
9.4	6.70	
0.093	9.76 ^{1u}	
1.9	7.96	
0.053	71	6.50
0.012	10.0	7.39

¹⁹⁵Au₁₁₆