^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. C. Batchelder and A. M. Hurst, M. S. Basunia	NDS 183, 1 (2022)	1-Mar-2022

Parent: ^{186}Hg: E=0.0; J$^{\pi}$=0^{+}; $T_{1/2}$=1.38 min *10*; Q(ε)=3176 *24*; %ε+%β^{+} decay=100.0
also: TAS measurement from (2021Al18).

^{186}Au Levels

E(level)	J$^{\pi}$‡	$T_{1/2}$†	E(level)	J$^{\pi}$‡	E(level)
0.0	3^{-}	10.7 min *5*	438.80 *13*	(1^{+})	800.3 *4*
36.14 *8*	2^{-}	80 ps *15*	441.70? *14*		804.7 *4*
113.94 *13*	1^{-}	1.6 ns *2*	464.20 *14*	(1^{-})	942.6 *4*
189.74 *17*	1^{-}		487.30 *13*	(1)$^{+}$	1032.3 *4*
227.77 *7*	3^{+},(2^{+})	110 ns *10*	496.60 *14*	(1^{+})	1044.3 *4*
251.50 *9*	2^{-}	70 ps *20*	556.80 *14*	(1,2)$^{-}$	1144.1 *4*
288.00 *8*	2^{+}	870 ps *50*	595.92 *24*		1145.1 *5*
337.64 *10*			598.21 *11*	(1^{-})	1283.0 *5*
349.10 *9*	2^{-}		611.9 *4*		1300.6 *4*
350.87 *13*	1^{+}		664.30 *14*	(1^{-})	1503.8 *4*
363.61 *11*	1^{+}	210 ps *30*	689.43 *12*	(1^{-})	1608.66 *25*
393.02 *22*			715.49 *17*	(0^{+},1^{+})	1686.96 *25*
405.21 *10*	(1^{-})		732.7 *3*		1691.36 *25*

† From 1985Ab03 (ce-γ or ce-ce delayed coin).
‡ From Adopted Levels.

ε,β^{+} radiations

E(decay)	E(level)	Iβ^{+} †	Iε†	Log *ft*	I($\varepsilon+\beta^{+}$)†	Comments
(1485 *24*)	1691.36		0.186 *24*	6.41 *7*	0.186 *24*	εK=0.8039 *2*; εL=0.14779 *21*; εM+=0.04772 *8*
(1489 *24*)	1686.96		0.134 *17*	6.55 *7*	0.134 *17*	εK=0.8039 *2*; εL=0.14775 *21*; εM+=0.04771 *8*
(1567 *24*)	1608.66	0.00026 *6*	0.22 *3*	6.38 *7*	0.22 *3*	av Eβ=266 *11*; εK=0.8042; εL=0.14711 *20*; εM+=0.04747 *8*
(1672 *24*)	1503.8	9.1×10^{-5} *20*	0.038 *6*	7.20 *8*	0.038 *6*	av Eβ=313 *11*; εK=0.8042 *1*; εL=0.14627 *20*; εM+=0.04715 *7*
(1875 *24*)	1300.6	0.00106 *18*	0.159 *22*	6.69 *7*	0.160 *22*	av Eβ=402 *11*; εK=0.8022 *5*; εL=0.14459 *22*; εM+=0.04655 *8*
(1893 *24*)	1283.0	0.00032 *6*	0.045 *7*	7.24 *8*	0.045 *7*	av Eβ=410 *11*; εK=0.8019 *5*; εL=0.14444 *22*; εM+=0.04649 *8*
(2031 *24*)	1145.1	0.00054 *10*	0.044 *7*	7.31 *8*	0.045 *7*	av Eβ=470 *11*; εK=0.7987 *7*; εL=0.14315 *25*; εM+=0.04604 *9*
(2032 *24*)	1144.1	0.00139 *23*	0.114 *16*	6.90 *7*	0.115 *16*	av Eβ=471 *11*; εK=0.7987 *7*; εL=0.14314 *25*; εM+=0.04604 *9*
(2132 *24*)	1044.3	0.00064 *11*	0.037 *6*	7.43 *8*	0.038 *6*	av Eβ=514 *11*; εK=0.7954 *10*; εL=0.1421 *3*; εM+=0.04568 *9*
(2144 *24*)	1032.3	0.0011 *2*	0.063 *9*	7.21 *7*	0.064 *9*	av Eβ=520 *11*; εK=0.7950 *10*; εL=0.1420 *3*; εM+=0.04563 *10*
(2233 *24*)	942.6	0.0043 *7*	0.19 *3*	6.77 *8*	0.19 *3*	av Eβ=559 *11*; εK=0.7912 *12*; εL=0.1409 *3*; εM+=0.04528 *10*
(2371 *24*)	804.7	0.0067 *13*	0.20 *4*	6.79 *9*	0.21 *4*	av Eβ=619 *11*; εK=0.7841 *15*; εL=0.1391 *4*; εM+=0.04468 *12*
(2376 *24*)	800.3	0.0071 *14*	0.21 *4*	6.77 *9*	0.22 *4*	av Eβ=621 *11*; εK=0.7838 *15*; εL=0.1391 *4*; εM+=0.04466 *12*
(2443 *24*)	732.7	0.0099 *16*	0.25 *4*	6.73 *8*	0.26 *4*	av Eβ=651 *11*; εK=0.7796 *16*; εL=0.1381 *4*;

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^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03 (continued)

ε,β$^+$ radiations (continued)

E(decay)	E(level)	Iβ$^+$ †	Iε†	Log *ft*	I(ε+β$^+$)†	Comments
						εM+=0.04434 *12*
(2461 *24*)	715.49	0.023 *3*	0.56 *8*	6.38 *7*	0.58 *8*	av Eβ=658 *11*; εK=0.7785 *17*; εL=0.1379 *4*; εM+=0.04426 *12*
(2487 *24*)	689.43	0.012 *2*	0.28 *4*	6.70 *7*	0.29 *4*	av Eβ=670 *11*; εK=0.7767 *17*; εL=0.1375 *4*; εM+=0.04413 *13*
(2512 *24*)	664.30	0.0037 *6*	0.079 *11*	7.25 *7*	0.083 *12*	av Eβ=681 *11*; εK=0.7749 *18*; εL=0.1371 *4*; εM+=0.04400 *13*
(2564 *24*)	611.9	0.0072 *11*	0.140 *20*	7.02 *7*	0.147 *21*	av Eβ=704 *11*; εK=0.7711 *19*; εL=0.1362 *4*; εM+=0.04372 *13*
(2578 *24*)	598.21	0.042 *6*	0.79 *10*	6.27 *7*	0.83 *11*	av Eβ=710 *11*; εK=0.7700 *19*; εL=0.1360 *4*; εM+=0.04365 *14*
(2580 *24*)	595.92	0.010 *2*	0.19 *3*	6.89 *8*	0.20 *3*	av Eβ=711 *11*; εK=0.7698 *19*; εL=0.1360 *4*; εM+=0.04363 *14*
(2619 *24*)	556.80	0.0063 *9*	0.109 *15*	7.15 *7*	0.115 *16*	av Eβ=728 *11*; εK=0.7667 *20*; εL=0.1353 *5*; εM+=0.04342 *14*
(2679 *24*)	496.60	0.024 *7*	0.38 *11*	6.63 *14*	0.40 *12*	av Eβ=755 *11*; εK=0.7616 *22*; εL=0.1343 *5*; εM+=0.04307 *15*
(2689 *24*)	487.30	0.017 *3*	0.25 *4*	6.81 *8*	0.27 *4*	av Eβ=759 *11*; εK=0.7608 *22*; εL=0.1341 *5*; εM+=0.04301 *15*
(2712 *24*)	464.20	0.041 *6*	0.60 *8*	6.44 *7*	0.65 *9*	av Eβ=769 *11*; εK=0.7587 *22*; εL=0.1337 *5*; εM+=0.04288 *15*
(2737 *24*)	438.80	0.042 *6*	0.58 *8*	6.46 *8*	0.63 *9*	av Eβ=780 *11*; εK=0.7564 *23*; εL=0.1332 *5*; εM+=0.04272 *15*
(2771 *24*)	405.21	0.037 *9*	0.47 *11*	6.56 *11*	0.51 *12*	av Eβ=795 *11*; εK=0.7533 *24*; εL=0.1326 *5*; εM+=0.04251 *16*
(2783 *24*)	393.02	0.013 *4*	0.17 *5*	7.02 *13*	0.18 *5*	av Eβ=800 *11*; εK=0.7521 *24*; εL=0.1323 *5*; εM+=0.04244 *16*
(2812 *24*)	363.61	6.3 *7*	76 *7*	4.37 *6*	82 *8*	av Eβ=813 *11*; εK=0.7492 *24*; εL=0.1318 *5*; εM+=0.04225 *16*
(2825 *24*)	350.87	0.060 *8*	0.71 *9*	6.40 *7*	0.77 *10*	av Eβ=819 *11*; εK=0.7479 *25*; εL=0.1315 *5*; εM+=0.04217 *16*
(2838 *24*)	337.64	0.44 *6*	5.1 *6*	5.55 *7*	5.4 *7*	av Eβ=825 *11*; εK=0.7466 *25*; εL=0.1312 *5*; εM+=0.04208 *16*
(2986 *24*)	189.74	0.23 *4*	2.1 *4*	5.99 *9*	2.3 *3*	av Eβ=890 *11*; εK=0.731 *3*; εL=0.1281 *6*; εM+=0.04107 *18*
(3062 *24*)	113.94	0.35 *8*	2.8 *6*	5.88 *11*	3.0 *7*	av Eβ=924 *11*; εK=0.722 *3*; εL=0.1264 *6*; εM+=0.04051 *18*

† Absolute intensity per 100 decays.

γ(^{186}Au)

Iγ normalization: Normalized assuming Σ I(γ+ce) to g.s.=100.

Eγ‡	Iγ‡b	E$_i$(level)	J^π_i	E$_f$	J^π_f	Mult.†	δ†a	α&	Comments
36.1 *1*	4.5 *5*	36.14	2$^-$	0.0	3$^-$	M1+E2	0.10	31.6 *6*	%Iγ=0.29 *4* α(L)exp=18.4; L1/L2=4.2 (1983Po10) α(L)=24.2 *4*; α(M)=5.74 *10* α(N)=1.424 *24*; α(O)=0.254 *5*; α(P)=0.01408 *23* δ: From L1/L2.
49.7 *1*	5.0@ *5*	337.64		288.00	2$^+$	M1+E2	0.06	10.46 *16*	%Iγ=0.32 *5*

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^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03 (continued)

γ(^{186}Au) (continued)

E_γ[‡]	I_γ[‡b]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[†]	δ[†a]	α[&]	Comments
									L1/L2=8 (1983Po10) α(L)=8.03 *13*; α(M)=1.87 *3* α(N)=0.466 *8*; α(O)=0.0852 *13*; α(P)=0.00551 *9*
56.1 *1*	1.20[@] *12*	405.21	(1^-)	349.10	2^-	M1+E2	0.13	8.10 *13*	%Iγ=0.076 *10* L1/L3≈10 (1983Po10) α(L)=6.20 *10*; α(M)=1.464 *23* α(N)=0.364 *6*; α(O)=0.0655 *10*; α(P)=0.00382 *6*
60.2 *1*	5.2[@] *5*	288.00	2^+	227.77	$3^+,(2^+)$	M1+E2	0.49	14.47 *23*	%Iγ=0.33 *5* L1/L3=0.9; M2/M3=1.0 (1983Po10) α(L)=10.94 *18*; α(M)=2.74 *5* α(N)=0.676 *11*; α(O)=0.1126 *18*; α(P)=0.00263 *4*
75.8[#] *1*	8.1[@] *8*	189.74	1^-	113.94	1^-	M1+E2	0.18	3.35	%Iγ=0.51 *7* L1/L2=4.8 (1983Po10) α(L)=2.57 *4*; α(M)=0.607 *9* α(N)=0.1508 *22*; α(O)=0.0271 *4*; α(P)=0.001563 *23*
77.8[#] *1*	19.0[@] *19*	113.94	1^-	36.14	2^-	M1+E2	0.24	3.36	%Iγ=1.21 *16* L1/L2=3.2; L1/L3=6.0 (1983Po10) α(L)=2.57 *4*; α(M)=0.613 *9* α(N)=0.1523 *23*; α(O)=0.0271 *4*; α(P)=0.001419 *21*
109.8 *1*	6.0[@] *6*	337.64		227.77	$3^+,(2^+)$	E2		3.54	%Iγ=0.38 *5* L1/L2≈0.07 (1983Po10) α(K)=0.600 *9*; α(L)=2.20 *4*; α(M)=0.573 *9* α(N)=0.1409 *21*; α(O)=0.0226 *4*; α(P)=7.45×10^{-5} *11*
112.1 *1*	1000	363.61	1^+	251.50	2^-	E1		0.311	%Iγ=64 *6* α(K)exp=0.27 (1983Po10); L1/L2=3; L2/L3=0.9 α(K)=0.250 *4*; α(L)=0.0465 *7*; α(M)=0.01083 *16* α(N)=0.00265 *4*; α(O)=0.000458 *7*; α(P)=2.10×10^{-5} *3*
115.1 *1*	1.90 *19*	464.20	(1^-)	349.10	2^-	M1+E2	0.61	4.33 *7*	%Iγ=0.121 *16* α(K)exp=3.3 (1983Po10); α(L1)exp=0.44 α(K)=3.05 *5*; α(L)=0.968 *14*; α(M)=0.238 *4* α(N)=0.0589 *9*; α(O)=0.01011 *15*; α(P)=0.000367 *6*
123.1 *1*	2.4 *2*	350.87	1^+	227.77	$3^+,(2^+)$	M1		4.00	%Iγ=0.152 *19* α(K)exp=3.3 (1983Po10) α(K)=3.29 *5*; α(L)=0.551 *8*; α(M)=0.1279 *19* α(N)=0.0319 *5*; α(O)=0.00586 *9*; α(P)=0.000395 *6*
133.0 *1*	4.5 *5*	496.60	(1^+)	363.61	1^+	M1+E2	1.4	2.18 *4*	%Iγ=0.29 *4* α(K)exp=1.2 (1983Po10) α(K)=1.177 *17*; α(L)=0.756 *11*; α(M)=0.192 *3* α(N)=0.0474 *7*; α(O)=0.00783 *12*; α(P)=0.0001378 *20*

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^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03 (continued)

γ(^{186}Au) (continued)

Eγ[‡]	Iγ[‡b]	Ei(level)	J^π_i	Ef	J^π_f	Mult.[†]	δ[†a]	α[&]	Comments
150.8 *1*	3.3 *3*	438.80	(1+)	288.00	2+	M1+E2	0.55 *3*	1.96 *4*	%Iγ=0.21 *3* α(K)exp=1.5 *3* (1983Po10) α(K)=1.49 *4*; α(L)=0.358 *7*; α(M)=0.0864 *18* α(N)=0.0214 *5*; α(O)=0.00377 *7*; α(P)=0.000178 *5* δ: from α(K)exp. α(L1)exp=0.29 (1983Po10) gives δ(M1,E2)=0. However, the L1 peak in the fig. 3 spectrum of 1983Po10 appears slightly broader than other single-line peaks so could conceivably include the L2 peak.
153.7 *1*	2.50 *25*	405.21	(1−)	251.50	2−	M1+E2	0.45 *4*	1.93 *4*	%Iγ=0.159 *21* α(K)exp=1.5 *3* (1983Po10) α(K)=1.51 *5*; α(L)=0.324 *7*; α(M)=0.0773 *18* α(N)=0.0192 *5*; α(O)=0.00342 *7*; α(P)=0.000180 *6*
190.2[c] *1*		441.70?		251.50	2−				Eγ,Iγ: reported as doublet with Iγ=59 *6*. The entire Iγ is needed to balance the feeding through the 228 level. The existence of this second transition is inferred from observed coincidence with the 252γ.
191.6 *1*	59 *6*	227.77	3+,(2+)	36.14	2−	E1		0.0802	%Iγ=3.7 *5* α(K)exp<0.1 (1983Po10) α(K)=0.0657 *10*; α(L)=0.01121 *16*; α(M)=0.00260 *4* α(N)=0.000640 *9*; α(O)=0.0001129 *16*; α(P)=5.92×10^{-6} *9* Iγ: see comment on 190.2γ.
193.1 *1*	3.2 *3*	598.21	(1−)	405.21	(1−)	M1+E2	2.3	0.534	%Iγ=0.20 *3* α(K)exp≈0.3 (1983Po10) α(K)=0.302 *5*; α(L)=0.1744 *25*; α(M)=0.0442 *7* α(N)=0.01091 *16*; α(O)=0.00181 *3*; α(P)=3.34×10^{-5} *5*
[x]196.4 *1*	0.70 *7*					M1		1.069	%Iγ=0.044 *6* α(K)exp≈1 (1983Po10) α(K)=0.879 *13*; α(L)=0.1462 *21*; α(M)=0.0339 *5* α(N)=0.00845 *12*; α(O)=0.001554 *22*; α(P)=0.0001050 *15*
199.3 *1*	2.10 *21*	487.30	(1)+	288.00	2+	M1		1.026	%Iγ=0.133 *18* α(K)exp≈1 (1983Po10) α(K)=0.844 *12*; α(L)=0.1403 *20*; α(M)=0.0325 *5* α(N)=0.00811 *12*; α(O)=0.001491 *21*; α(P)=0.0001008 *15*
202.9 *1*	1.60 *16*	595.92		393.02		M1		0.976	%Iγ=0.102 *14* α(K)exp≈1 (1983Po10) α(K)=0.802 *12*; α(L)=0.1334 *19*; α(M)=0.0309 *5* α(N)=0.00771 *11*; α(O)=0.001418 *20*; α(P)=9.58×10^{-5} *14*

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^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03 (continued)

γ(^{186}Au) (continued)

E_γ[‡]	I_γ[‡b]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†a]	α[&]	Comments
218.9 *1*	2.7 *3*	715.49	(0+,1+)	496.60	(1+)	M1		0.790	%Iγ=0.172 *24* α(K)exp=0.65 (1983Po10); α(L1)exp=0.1 α(K)=0.650 *10*; α(L)=0.1079 *16*; α(M)=0.0250 *4* α(N)=0.00623 *9*; α(O)=0.001146 *17*; α(P)=7.75×10^{-5} *11* δ(M1,E2)=0 from α(L1)exp and K/L1, 0.21 from α(K)exp.
x220.0 *1*	0.70 *7*					M1+E2	>1.0	0.53 *1*	%Iγ=0.044 *6* α(K)exp<0.4 (1983Po10) α(K)=0.26 *13*; α(L)=0.1042 *17*; α(M)=0.0260 *6* α(N)=0.00643 *13*; α(O)=0.001086 *22*; α(P)=2.9×10^{-5} *16*
x223.8 *1*	0.70 *7*								%Iγ=0.044 *6*
227.7 *1*	48 *5*	227.77	3+,(2+)	0.0	3−	E1		0.0523	%Iγ=3.0 *4* α(K)exp=0.047 (1983Po10) α(K)=0.0429 *6*; α(L)=0.00720 *11*; α(M)=0.001666 *24* α(N)=0.000411 *6*; α(O)=7.28×10^{-5} *11*; α(P)=3.96×10^{-6} *6*
x231.2 *1*	1.00 *10*								%Iγ=0.064 *9*
234.5 *1*	2.40 *24*	598.21	(1−)	363.61	1+				%Iγ=0.152 *20*
251.5 *1*	870 *87*	251.50	2−	0.0	3−	M1		0.538	%Iγ=55.3 *11* α(K)exp=0.47 (1983Po10); α(L1)exp+α(L2)exp=0.076; L1/L3=100 (1983Po10) α(K)=0.443 *7*; α(L)=0.0733 *11*; α(M)=0.01700 *24* α(N)=0.00423 *6*; α(O)=0.000779 *11*; α(P)=5.27×10^{-5} *8*
x268.3 *1*	0.60 *6*								%Iγ=0.038 *5*
x271.4 *1*	0.50 *5*								%Iγ=0.032 *5*
x276.5 *1*	2.10 *21*								%Iγ=0.133 *18*
284.1 *1*	1.40 *14*	689.43	(1−)	405.21	(1−)	M1+E2	0.4	0.349	%Iγ=0.089 *12* α(K)exp=0.28 (1983Po10) α(K)=0.283 *4*; α(L)=0.0503 *7*; α(M)=0.01177 *17* α(N)=0.00293 *5*; α(O)=0.000533 *8*; α(P)=3.35×10^{-5} *5*
288.1 *1*	5.0 *5*	288.00	2+	0.0	3−	E1		0.0296	%Iγ=0.32 *5* α(K)exp<0.05 (1983Po10) α(K)=0.0244 *4*; α(L)=0.00400 *6*; α(M)=0.000924 *13* α(N)=0.000228 *4*; α(O)=4.07×10^{-5} *6*; α(P)=2.31×10^{-6} *4*
x294.7 *1*	0.80 *8*								%Iγ=0.051 *7*
x296.6 *1*	1.10 *11*								%Iγ=0.070 *10*
305.3 *1*	1.40 *14*	556.80	(1,2)−	251.50	2−	M1+E2	0.4	0.286	%Iγ=0.089 *12* α(K)exp≈0.23 (1983Po10) α(K)=0.233 *4*; α(L)=0.0410 *6*; α(M)=0.00957 *14* α(N)=0.00238 *4*; α(O)=0.000434 *6*; α(P)=2.75×10^{-5} *4* δ: Based on 0.0 *4*.
x308.1 *1*	1.00 *10*								%Iγ=0.064 *9*

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^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03 (continued)

γ(^{186}Au) (continued)

Eγ[‡]	Iγ[‡b]	Ei(level)	J_i^π	Ef	J_f^π	Mult.[†]	δ[†a]	α[&]	Comments
315.2 *1*	1.00 *10*	664.30	(1⁻)	349.10	2⁻	M1		0.290	%Iγ=0.064 *9* α(K)exp≈0.28 (1983Po10) α(K)=0.239 *4*; α(L)=0.0394 *6*; α(M)=0.00912 *13* α(N)=0.00227 *4*; α(O)=0.000418 *6*; α(P)=2.83×10⁻⁵ *4*
ˣ323.0 *1*	1.40 *14*								%Iγ=0.089 *12*
325.9 *1*	0.60 *6*	689.43	(1⁻)	363.61	1⁺				%Iγ=0.038 *5*
ˣ342.5 *1*	1.10 *10*								%Iγ=0.070 *9*
346.7 *1*	7.7 *8*	598.21	(1⁻)	251.50	2⁻	E2		0.0673	%Iγ=0.49 *7* α(K)exp=0.044 (1983Po10) α(K)=0.0437 *7*; α(L)=0.0179 *3*; α(M)=0.00447 *7* α(N)=0.001103 *16*; α(O)=0.000186 *3*; α(P)=4.73×10⁻⁶ *7*
349.1 *1*	15.0 *15*	349.10	2⁻	0.0	3⁻	M1+E2	0.43	0.196	%Iγ=0.95 *13* α(K)exp=0.16 (1983Po10) α(K)=0.1598 *23*; α(L)=0.0279 *4*; α(M)=0.00651 *10* α(N)=0.001620 *23*; α(O)=0.000295 *5*; α(P)=1.88×10⁻⁵ *3*
351.8 *3*	3.5 *4*	715.49	(0⁺,1⁺)	363.61	1⁺	M1		0.216	%Iγ=0.22 *4* α(K)exp=0.18 (1983Po10) α(K)=0.178 *3*; α(L)=0.0292 *5*; α(M)=0.00676 *10* α(N)=0.001684 *24*; α(O)=0.000310 *5*; α(P)=2.10×10⁻⁵ *3*
356.8 *3*	1.80 *18*	393.02		36.14	2⁻				%Iγ=0.114 *15*
360.4 *3*	2.30 *23*	611.9		251.50	2⁻				%Iγ=0.146 *20*
ˣ388.5 *3*	1.00 *10*								%Iγ=0.064 *9*
393.1 *3*	5.8 *6*	393.02		0.0	3⁻				%Iγ=0.37 *5*
395.1 *3*	3.5 *4*	800.3		405.21	(1⁻)				%Iγ=0.22 *4*
ˣ400.0 *3*	0.60 *6*								%Iγ=0.038 *5*
ˣ402.9 *3*	0.60 *6*								%Iγ=0.038 *5*
ˣ405.8 *3*	0.50 *5*								%Iγ=0.032 *5*
412.4 *3*	0.70 *7*	1145.1		732.7					%Iγ=0.044 *6*
ˣ417.2 *3*	0.60 *6*								%Iγ=0.038 *5*
ˣ432.6 *3*	0.60 *6*								%Iγ=0.038 *5*
ˣ436.8 *3*	0.50 *5*								%Iγ=0.032 *5*
438.3 *3*	2.00 *20*	689.43	(1⁻)	251.50	2⁻				%Iγ=0.127 *17*
ˣ449.9 *3*	0.80 *8*								%Iγ=0.051 *7*
ˣ476.2 *3*	0.90 *9*								%Iγ=0.057 *8*
478.3 *3*	0.70 *7*	1283.0		804.7					%Iγ=0.044 *6*
ˣ490.3 *3*	1.00 *10*								%Iγ=0.064 *9*
ˣ497.9 *3*	1.70 *17*								%Iγ=0.108 *15*
553.2 *3*	4.0 *4*	804.7		251.50	2⁻				%Iγ=0.25 *4*
ˣ587.5 *3*	1.00 *10*								%Iγ=0.064 *9*
639.3 *3*	1.00 *10*	1032.3		393.02					%Iγ=0.064 *9*
651.3 *3*	0.60 *6*	1044.3		393.02					%Iγ=0.038 *5*
ˣ654.0 *3*	1.40 *14*								%Iγ=0.089 *12*
ˣ682.5 *3*	1.00 *10*								%Iγ=0.064 *9*
691.1 *3*	2.9 *3*	942.6		251.50	2⁻				%Iγ=0.184 *25*
702.4 *3*	2.50 *25*	1300.6		598.21	(1⁻)				%Iγ=0.159 *21*
ˣ721.4 *3*	1.60 *16*								%Iγ=0.102 *14*
ˣ725.9 *3*	2.30 *23*								%Iγ=0.146 *20*
732.7 *3*	4.8 *5*	732.7		0.0	3⁻				%Iγ=0.30 *5*

Continued on next page (footnotes at end of table)

^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03 (continued)

γ(^{186}Au) (continued)

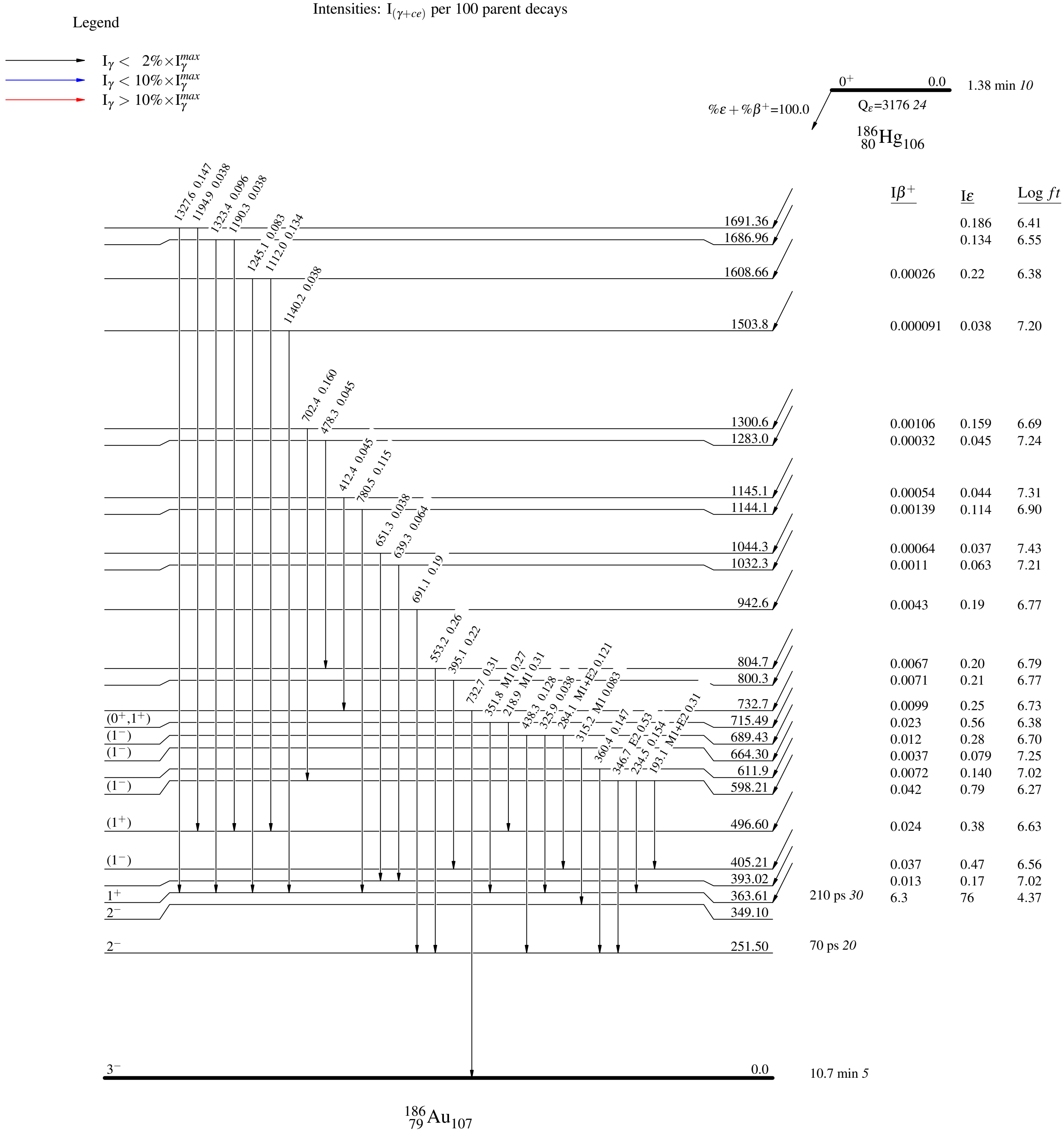
E_γ ‡	I_γ ‡b	E_i(level)	E_f	J^π_f	Comments
x739.4 *3*	1.00 *10*				%Iγ=0.064 *9*
780.5 *3*	1.80 *18*	1144.1	363.61	1^+	%Iγ=0.114 *15*
x811.8 *3*	1.20 *12*				%Iγ=0.076 *10*
x859.8 *3*	1.20 *12*				%Iγ=0.076 *10*
x885.6 *3*	1.00 *10*				%Iγ=0.064 *9*
x939.2 *3*	1.00 *10*				%Iγ=0.064 *9*
1112.0 *3*	2.10 *21*	1608.66	496.60	(1^+)	%Iγ=0.133 *18*
1140.2 *3*	0.60 *6*	1503.8	363.61	1^+	%Iγ=0.038 *5*
1190.3 *3*	0.60 *6*	1686.96	496.60	(1^+)	%Iγ=0.038 *5*
1194.9 *3*	0.60 *6*	1691.36	496.60	(1^+)	%Iγ=0.038 *5*
1245.1 *3*	1.30 *13*	1608.66	363.61	1^+	%Iγ=0.083 *11*
1323.4 *3*	1.50 *15*	1686.96	363.61	1^+	%Iγ=0.095 *13*
1327.6 *3*	2.30 *23*	1691.36	363.61	1^+	%Iγ=0.146 *20*

† From conversion electron measurements of 1983Po10.
‡ From 1983Po10.
# Transition mixed with $K\beta_1$ x ray of Pt and Au.
@ Deduced by 1983Po10 from their I(ce) data. ΔI_γ=10% is assumed for these transitions also, since the authors do not specify otherwise.
& Additional information 1.
a If No value given it was assumed δ=1.00 for E2/M1, δ=1.00 for E3/M2 and δ=0.10 for the other multipolarities.
b For absolute intensity per 100 decays, multiply by 0.064 *6*.
c Placement of transition in the level scheme is uncertain.
x γ ray not placed in level scheme.

^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



^{186}Hg ε decay (1.38 min) 1983Po10,1985Ab03

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays