^{246}Am β^- decay (25.0 min) 1976Mu03

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 198,449 (2024)	31-Jul-2022

Parent: ^{246}Am: E=0.0+x; J^π=(2$^-$); $T_{1/2}$=25.0 min *2*; Q(β^-)=2377 *syst*; %β^- decay=100

^{246}Am-E: x=30 *10* (1984So03). X=0 is assumed for log*ft* calculation.

^{246}Am-Q(β^-): 2377 *18* (syst,2021Wa16).

1976Mu03: ^{246}Pu was produced by double neutron capture on ^{244}Pu. at the Oak Ridge National Laboratory high flux reactor. Gamma rays from the β decay sequence of ^{246}Pu →^{246}Am → ^{246}Cm were investigated with Ge(Li) planar, coaxial and Compton-suppressed Ge(Li) detectors. Conversion-electron spectra were measured with a Si(Li) detector (FWHM=2 keV). Measured Eγ, Iγ, $\gamma\gamma$, Ice, and conversion coefficients.

1971Mu05: ^{246}Pu was produced from the debris of a heavy element- production underground nuclear detonation. It was then followed by a series of chemical separation processes. γ-ray singles measurements from the β decay sequence of ^{246}Pu →^{246}Am → ^{246}Cm was performed using several Ge(Li) detectors.

1966Or01: ^{246}Pu was produced from the underground explosion, and was chemically separated. γ-ray singles measurements from the β decay of ^{246}Am → ^{246}Cm was performed using γ-scintillation spectrometers, and Ge(Li) detectors. A Au-surface-barrier electron detector was used to measure the electron spectrum. Measured, γ singles, $\gamma\gamma$- coin, Eγ, Iγ and conversion-electron data.

Others: 1965St10,1956Sm85.

^{246}Cm Levels

E(level)†	Jπ‡	$T_{1/2}$‡	E(level)†	Jπ‡
0#	0$^+$	4706 y *40*	1593.693[h] *23*	2$^-$
42.835# *17*	2$^+$	123.2 ps *23*	1601.219 *27*	(2,3)$^+$
141.986# *24*	4$^+$		1604.161[i] *32*	(1$^-$)
294.88 *17*	6$^+$		1621.483[h] *25*	3$^-$
841.668[@] *20*	2$^-$		1628.90? *7*	
876.431[@] *22*	3$^-$		1633.521[i] *32*	(2)$^-$
923.297[@] *28*	4$^-$		1659.19 *8*	(1$^-$)
1078.844[&] *20*	1$^-$		1661.651[j] *32*	(1$^+$)
1104.854[&] *23*	2$^-$		1670.990[i] *29*	(3$^-$)
1124.257[a] *24*	2$^+$		1680.80[j] *5*	(2$^+$)
1128.009[&] *25*	3$^-$		1712.37[j] *5*	(3$^+$)
1165.473[a] *32*	3$^+$		1780.799 *30*	2$^+$
1174.72[b] *4*	0$^+$		1821.75 *6*	
1210.52[b] *5*	2$^+$		1836.73 *6*	2$^+$,1$^-$
1219.87[a] *8*	4$^+$		1856.55 *4*	3$^+$
1249.766[c] *22*	1$^-$		1870.19 *5*	1,2$^+$
1289.32[d] *26*	0$^+$		1875.52 *11*	1,2$^+$
1300.429[c] *34*	3$^-$		1886.756 *32*	(1$^+$)
1317.56?[d] *5*	(2)$^+$		1898.07 *9*	2$^+$
1340.18 *5*			1901.31 *6*	2$^+$,3
1348.860[e] *22*	1$^-$		1906.10 *14*	2$^+$,3,4$^+$
1366.619[e] *24*	(2$^-$)		1909.31 *5*	2$^+$,1
1379.21[d] *7*	(4$^+$)		1924.55 *4*	1,2$^+$
1451.882[f] *32*	1$^+$		1947.07 *6*	2$^+$,3,4$^+$
1478.42[f] *4*	(2$^+$)		1983.33 *8*	(1$^-$,2$^+$)
1509.26[f] *5*	(3$^+$)		2032.49 *6*	1,2$^+$
1525.917[g] *24*	3$^-$		2146.04 *5*	1,2$^+$
1573.74 *5*	(1$^+$)		2171.41 *6*	2$^+$,3

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^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

^{246}Cm Levels (continued)

† From least squares fit to Eγ data by the evaluator.
‡ From Adopted Levels.
# Band(A): g.s. rotational band.
@ Band(B): $K^\pi=2^-$ octupole vibrational band.
& Band(C): $K^\pi=1^-$ octupole vibrational band.
a Band(D): $K^\pi=2^+$ γ vibrational band.
b Band(E): $K^\pi=0^+$ band.
c Band(F): $K^\pi=0^-$ band.
d Band(G): second $K^\pi=0^+$ band.
e Band(H): second $K^\pi=1^-$ band.
f Band(I): $K^\pi=1^+$ band.
g Band(J): $K^\pi=3^-$ octupole vibrational band head.
h Band(K): second $K^\pi=2^-$ band.
i Band(L): third $K^\pi=1^-$ band.
j Band(M): second $K^\pi=1^+$ band.

β^- radiations

E(decay)	E(level)	Iβ$^{-\dagger@}$	Log *ft*	Comments
(236 *syst*)	2171.41	0.0109 *27*	7.33 *17*	av Eβ=55.3 *52*
(261 *syst*)	2146.04	0.00461 *31*	7.87 *12*	av Eβ=62.6 *53*
(375 *syst*)	2032.49	0.012 *6*	8.00 *23*	av Eβ=96.4 *56*
(424 *syst*)	1983.33	0.018 *4*	8.01 *12*	av Eβ=111.7 *57*
(460 *syst*)	1947.07	0.0081 *14*	8.48 *10*	av Eβ=123.0 *58*
(482 *syst*)	1924.55	0.0156 *13*	8.27 *7*	av Eβ=130.2 *58*
(498 *syst*)	1909.31	0.0064 *11*	8.70 *10*	av Eβ=135.1 *58*
(501 *syst*)	1906.10	0.00184 *33*	9.25 *10*	av Eβ=136.1 *59*
(506 *syst*)	1901.31	0.0221 *20*	8.19 *7*	av Eβ=137.6 *59*
(509 *syst*)	1898.07	0.014 *11*	8.4 *4*	av Eβ=138.7 *59*
(520 *syst*)	1886.756	0.059 *10*	7.81 *9*	av Eβ=142.3 *59*
(531 *syst*)	1875.52	0.036 *14*	8.05 *18*	av Eβ=146.0 *59*
(537 *syst*)	1870.19	0.025 *7*	8.23 *14*	av Eβ=147.7 *59*
(550 *syst*)	1856.55	0.048 *16*	7.98 *16*	av Eβ=152.1 *59*
(570 *syst*)	1836.73	0.0105 *28*	8.69 *13*	av Eβ=158.6 *60*
(585 *syst*)	1821.75	0.0238 *17*	8.38 *6*	av Eβ=163.6 *60*
(626 *syst*)	1780.799	0.274 *16*	7.42 *6*	av Eβ=177.1 *61*
(695 *syst*)	1712.37	0.026 *4*	8.60 *8*	av Eβ=200.2 *62*
(726 *syst*)	1680.80	0.170 *28*	7.85 *9*	av Eβ=211.0 *62*
(736 *syst*)	1670.990	0.435 *25*	7.46 *5*	av Eβ=214.3 *62*
(745 *syst*)	1661.651	0.360 *19*	7.56 *5*	av Eβ=217.5 *62*
(748 *syst*)	1659.19	0.041 *4*	8.51 *6*	av Eβ=218.4 *63*
(773 *syst*)	1633.521	0.68 *5*	7.34 *5*	av Eβ=227.3 *63*
(778 *syst*)	1628.90?	0.0069 *32*	9.35 *21*	av Eβ=228.9 *63*
(786 *syst*)	1621.483	0.94 *5*	7.23 *5*	av Eβ=231.4 *63*
(803 *syst*)	1604.161	0.207 *11*	7.92 *5*	av Eβ=237.5 *63*
(806 *syst*)	1601.219	0.97 *5*	7.25 *5*	av Eβ=238.5 *63*
(813 *syst*)	1593.693	1.76 *9*	7.01 *4*	av Eβ=241.1 *63*
(833 *syst*)	1573.74	0.074 *7*	8.42 *6*	av Eβ=248.1 *64*
(881 *syst*)	1525.917	1.74 *9*	7.14 *4*	av Eβ=265.0 *64*
(898 *syst*)	1509.26	<0.0140	>9.3	av Eβ=270.9 *64*
(929 *syst*)	1478.42	0.092 *22*	8.49 *11*	av Eβ=281.9 *65*
(955 *syst*)	1451.882	0.112 *17*	8.45 *8*	av Eβ=291.4 *65*
(1028& *syst*)	1379.21	0.017 *11*	9.9^{1u} *3*	av Eβ=305.6 *60*
(1040 *syst*)	1366.619	1.12 *27*	7.58 *11*	av Eβ=322.2 *66*

Continued on next page (footnotes at end of table)

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

β^- radiations (continued)

E(decay)	E(level)	Iβ^-[†][@]	Log *ft*	Comments
(1058 *syst*)	1348.860	5.42 *29*	6.93 *4*	av Eβ=328.7 *66*
(1067 *syst*)	1340.18	0.038 *4*	9.09 *6*	av Eβ=331.8 *66*
(1089[&] *syst*)	1317.56?	0.276 *15*	8.26 *4*	av Eβ=340.1 *67*
(1107 *syst*)	1300.429	0.022 *13*	9.4 *3*	av Eβ=346.4 *67*
(1157 *syst*)	1249.766	0.48 *19*	8.12 *18*	av Eβ=365.1 *67*
(1196 *syst*)	1210.52	0.024 *11*	9.47 *20*	av Eβ=379.6 *67*
(1232 *syst*)	1174.72	0.017 *5*	10.29[1u] *14*	av Eβ=374.7 *62*
(1279 *syst*)	1128.009	1.87 *19*	7.68 *5*	av Eβ=410.5 *68*
(1283 *syst*)	1124.257	0.25 *5*	8.56 *9*	av Eβ=411.9 *69*
(1302[‡] *syst*)	1104.854	14.3 *8*	6.83 *4*	av Eβ=419.2 *69*
(1328[‡] *syst*)	1078.844	37.5 *20*	6.44 *4*	av Eβ=429.0 *68*
(1531 *syst*)	876.431	7.0 *6*	7.40 *5*	av Eβ=506.2 *70*
(1565 *syst*)	841.668	16.4 *9*	7.06 *3*	av Eβ=519.6 *70*
(2112 *syst*)	294.88	0.008 *7*	10.9 *4*	av Eβ=734.3 *72*
(2265[&] *syst*)	141.986	0.42 *28*	10.4[1u] *3*	av Eβ=752.5 *70*
(2364 *syst*)	42.835	≈3.5[#]	≈8.4	av Eβ=835.1 *73*
(2407 *syst*)	0	≈3.5[#]	≈9.6[1u]	av Eβ=807.3 *70*

[†] From level scheme intensity balance. The evaluator notes that several unplaced γ rays may affect the value of Iβ deduced from intensity balance.

[‡] The Fermi plot of β-spectrum from ^{246}Pu+^{246}Am equilibrium source shows three groups: 2.10 MeV *7%*, 1.60 MeV *14%* and 1.31 MeV *79%* (1956Sm85).

[#] Iβ(g.s.+43 level)≈7 (1956Sm85).

[@] Absolute intensity per 100 decays.

[&] Existence of this branch is questionable.

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$

Iγ normalization: From ΣI(γ+ce)(to 0.0+43 level)= 93% *4*. (I(γ+ce)(42.852γ) not included in this sum), since Iβ⁻(g.s.) + Iβ(42-keV state)=7% *4* (1956Sm85). Uncertainty was not provided by the authors (1956Sm85), but was assigned by the evaluator.

E_γ[†]	I_γ[†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[f]	$I_{(\gamma+ce)}$[g]	Comments
34.76[‡]		876.431	3⁻	841.668	2⁻	(M1,E2)	1.5×10³ *14*	216[‡] *20*	ce(L)/(γ+ce)=0.7 *5*; ce(M)/(γ+ce)=0.20 *23* ce(N)/(γ+ce)=0.06 *7*; ce(O)/(γ+ce)=0.014 *17*; ce(P)/(γ+ce)=0.0022 *28*; ce(Q)/(γ+ce)=1.4×10⁻⁵ *13* α(L)=1.1×10³ *10*; α(M)=3.1×10² *29* α(N)=9; α(O)=21 *19*; α(P)=3.5 *31*; α(Q)=0.021 *7* Mult.: As given in the Adopted Gammas.
42.9 *2*	≈2	42.835	2⁺	0	0⁺	E2[&]	1058 *28*		α(L)=766 *21*; α(M)=216 *6* α(N)=60.0 *16*; α(O)=14.5 *4*; α(P)=2.37 *6*; α(Q)=0.00582 *14* %Iγ≈0.05
46.87[‡]		923.297	4⁻	876.431	3⁻	[M1,E2]	3.8×10² *31*	3.5[‡] *8*	ce(L)/(γ+ce)=0.7 *4*; ce(M)/(γ+ce)=0.20 *21* ce(N)/(γ+ce)=0.06 *6*; ce(O)/(γ+ce)=0.014 *16*; ce(P)/(γ+ce)=0.0023 *26*; ce(Q)/(γ+ce)=2.1×10⁻⁵ *20* α(L)=2.7×10² *23*; α(M)=8 α(N)=21 *18*; α(O)=5 *4*; α(P)=0.9 *7*; α(Q)=0.008 *4*
81.63[‡]		923.297	4⁻	841.668	2⁻	[E2]	48.4 *7*	5.5[‡] *12*	ce(L)/(γ+ce)=0.708 *7*; ce(M)/(γ+ce)=0.2001 *35* ce(N)/(γ+ce)=0.0557 *11*; ce(O)/(γ+ce)=0.01348 *26*; ce(P)/(γ+ce)=0.00223 *4*; ce(Q)/(γ+ce)=7.85×10⁻⁶ *15* α(L)=35.0 *5*; α(M)=9.90 *14* α(N)=2.75 *4*; α(O)=0.666 *9*; α(P)=0.1102 *15*; α(Q)=0.000388 *5*
99.2 *2*	6.7 *5*	141.986	4⁺	42.835	2⁺	E2[&]	19.43 *33*		α(L)=14.05 *24*; α(M)=3.97 *7* α(N)=1.105 *19*; α(O)=0.268 *5*; α(P)=0.0444 *7*; α(Q)=0.0001817 *29* %Iγ=0.166 *15*
[x]150.81 *14*	0.32 *6*								%Iγ=0.0079 *15*
152.9[#] *2*	0.18 *6*	294.88	6⁺	141.986	4⁺	[E2]	2.88 *4*		α(K)=0.1739 *24*; α(L)=1.957 *30*; α(M)=0.551 *8* α(N)=0.1534 *23*; α(O)=0.0373 *6*; α(P)=0.00627 *9*; α(Q)=4.00×10⁻⁵ *6* %Iγ=0.0045 *15*
171.02 *11*	2.0 *8*	1249.766	1⁻	1078.844	1⁻	[M1,E2]	4.4 *25*		α(K)=2.8 *26*; α(L)=1.15 *4*; α(M)=0.304 *32* α(N)=0.084 *9*; α(O)=0.0209 *19*; α(P)=0.00379 *7*; α(Q)=1.5×10⁻⁴ *12* %Iγ=0.050 *20*
[x]227.4 *2*	0.6 *2*								%Iγ=0.015 *5*
227.4[#i] *2*	0.6 *2*	1593.693	2⁻	1366.619	(2⁻)	[M1,E2]	1.8 *12*		α(K)=1.3 *12*; α(L)=0.43 *7*; α(M)=0.110 *11*

From ENSDF

$^{246}_{96}Cm_{150}$-4

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ	α [f]	Comments
									α(N)=0.0304 *30*; α(O)=0.0076 *9*; α(P)=0.00141 *26*; α(Q)=7 %Iγ=0.015 *5*
228.71 *7*	1.5 *3*	1478.42	(2$^+$)	1249.766	1$^-$	[E1]		0.0789 *11*	α(K)=0.0613 *9*; α(L)=0.01322 *19*; α(M)=0.00324 *5* α(N)=0.000882 *12*; α(O)=0.0002195 *31*; α(P)=4.04×10^{-5} *6*; α(Q)=2.124×10^{-6} *30* %Iγ=0.037 *8*
237.23 *4*	5.8 *3*	1078.844	1$^-$	841.668	2$^-$	[M1,E2]		1.6 *11*	α(K)=1.1 *10*; α(L)=0.37 *7*; α(M)=0.095 *13* α(N)=0.0263 *33*; α(O)=0.0066 *10*; α(P)=0.00122 *26*; α(Q)=6 %Iγ=0.144 *10*
238.64 *3*	5.9 *3*	1366.619	(2$^-$)	1128.009	3$^-$	[M1,E2]		1.6 *11*	α(K)=1.1 *10*; α(L)=0.36 *7*; α(M)=0.093 *13* α(N)=0.0258 *33*; α(O)=0.0064 *10*; α(P)=0.00120 *26*; α(Q)=6 %Iγ=0.146 *10*
244.03 *3*	27.5 *10*	1348.860	1$^-$	1104.854	2$^-$	(M1)		2.534 *35*	α(K)=1.991 *28*; α(L)=0.408 *6*; α(M)=0.0996 *14* α(N)=0.0274 *4*; α(O)=0.00697 *10*; α(P)=0.001371 *19*; α(Q)=9.79×10^{-5} *14* %Iγ=0.68 *4* Mult.: α(K)=2.9 *20* (1966Or01).
244.9 *2*	0.25 *15*	1593.693	2$^-$	1348.860	1$^-$	[M1,E2]		1.5 *10*	α(K)=1.0 *9*; α(L)=0.33 *7*; α(M)=0.086 *13* α(N)=0.0236 *35*; α(O)=0.0059 *10*; α(P)=0.00110 *26*; α(Q)=5 %Iγ=0.006 *4*
251.50 *10*	0.11 *2*	1128.009	3$^-$	876.431	3$^-$	[M1,E2]		1.4 *10*	α(K)=1.0 *9*; α(L)=0.30 *7*; α(M)=0.078 *13* α(N)=0.0216 *35*; α(O)=0.0054 *10*; α(P)=0.00101 *25*; α(Q)=5 %Iγ=0.0027 *5*
261.73 *5*	6.3 *2*	1366.619	(2$^-$)	1104.854	2$^-$	[M1,E2]		1.2 *9*	α(K)=0.9 *8*; α(L)=0.27 *7*; α(M)=0.069 *13* α(N)=0.019 *4*; α(O)=0.0047 *10*; α(P)=8.9×10^{-4} *24*; α(Q)=4 %Iγ=0.156 *9*
263.17 *5*	1.35 *9*	1104.854	2$^-$	841.668	2$^-$	[M1,E2]		1.2 *8*	α(K)=0.9 *8*; α(L)=0.26 *7*; α(M)=0.067 *13* α(N)=0.019 *4*; α(O)=0.0047 *10*; α(P)=8.7×10^{-4} *24*; α(Q)=4.4×10^{-5} *35* %Iγ=0.0335 *27*
267.3[h] *5*	0.2[h] *1*	1478.42	(2$^+$)	1210.52	2$^+$	[M1,E2]		1.2 *8*	α(K)=0.8 *7*; α(L)=0.25 *7*; α(M)=0.064 *13* α(N)=0.0177 *35*; α(O)=0.0044 *10*; α(P)=8.3×10^{-4} *23*; α(Q)=4.2×10^{-5} *34* %Iγ=0.0050 *25*
267.3[h] *5*	0.2[h] *1*	1633.521	(2)$^-$	1366.619	(2$^-$)	[M1,E2]		1.2 *8*	α(K)=0.8 *7*; α(L)=0.25 *7*; α(M)=0.064 *13* α(N)=0.0177 *35*; α(O)=0.0044 *10*; α(P)=8.3×10^{-4} *23*; α(Q)=4.2×10^{-5} *34* %Iγ=0.0050 *25*
270.07 *3*	41.2 *13*	1348.860	1$^-$	1078.844	1$^-$	M1+E2	0.36 *+10−13*	1.73 *10*	α(K)=1.34 *9*; α(L)=0.292 *9*; α(M)=0.0720 *20*

From ENSDF

$^{246}_{96}Cm_{150}$-5

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
								α(N)=0.0198 *5*; α(O)=0.00502 *14*; α(P)=0.000979 *33*; α(Q)=6.6×10^{-5} *4* %Iγ=1.02 *6* Mult.,δ: α(K)exp=1.34 *6*, α(L)exp=0.34 *10* (1976Mu03); α(K)exp=2.2 *16* (1966Or01).
271.1 *2*	0.2 *1*	1983.33	(1$^-$,2$^+$)	1712.37	(3$^+$)			%Iγ=0.0050 *25*
277.0 *2*	0.08 *3*	1451.882	1$^+$	1174.72	0$^+$	[M1]	1.780 *25*	α(K)=1.399 *20*; α(L)=0.286 *4*; α(M)=0.0698 *10* α(N)=0.01918 *27*; α(O)=0.00488 *7*; α(P)=0.000961 *14*; α(Q)=6.86×10^{-5} *10* %Iγ=0.0020 *8*
287.78 *3*	5.20 *18*	1366.619	(2$^-$)	1078.844	1$^-$	(M1)	1.601 *22*	α(K)=1.259 *18*; α(L)=0.257 *4*; α(M)=0.0628 *9* α(N)=0.01724 *24*; α(O)=0.00439 *6*; α(P)=0.000864 *12*; α(Q)=6.16×10^{-5} *9* %Iγ=0.129 *7* Mult.: α(K)exp=1.5 *12* (1966Or01).
289.3[h] *2*	0.19[h] *5*	1165.473	3$^+$	876.431	3$^-$	[E1]	0.0470 *7*	α(K)=0.0369 *5*; α(L)=0.00763 *11*; α(M)=0.001860 *26* α(N)=0.000507 *7*; α(O)=0.0001268 *18*; α(P)=2.362×10^{-5} *33*; α(Q)=1.314×10^{-6} *18* %Iγ=0.0047 *13*
289.3[h] *2*	0.19[h] *5*	1509.26	(3$^+$)	1219.87	4$^+$	[M1,E2]	0.9 *7*	α(K)=0.7 *6*; α(L)=0.19 *6*; α(M)=0.049 *12* α(N)=0.0136 *34*; α(O)=0.0034 *9*; α(P)=6.4×10^{-4} *21*; α(Q)=3.4×10^{-5} *27* %Iγ=0.0047 *13*
293.37[h] *15*	0.18[h] *5*	1593.693	2$^-$	1300.429	3$^-$	[M1,E2]	0.9 *6*	α(K)=0.6 *6*; α(L)=0.19 *6*; α(M)=0.047 *12* α(N)=0.0130 *33*; α(O)=0.0033 *9*; α(P)=6.2×10^{-4} *20*; α(Q)=3.2×10^{-5} *26* %Iγ=0.0045 *13*
293.37[h] *15*	0.18[h] *5*	1633.521	(2)$^-$	1340.18				%Iγ=0.0045 *13*
[x]302.96 *5*	0.28 *3*							%Iγ=0.0069 *8*
306.0 *3*	0.05 *3*	1525.917	3$^-$	1219.87	4$^+$	[E1]	0.0417 *6*	α(K)=0.0328 *5*; α(L)=0.00671 *10*; α(M)=0.001635 *23* α(N)=0.000446 *6*; α(O)=0.0001115 *16*; α(P)=2.084×10^{-5} *30*; α(Q)=1.174×10^{-6} *17* %Iγ=0.0012 *8*
321.07 *4*	0.75 *5*	1621.483	3$^-$	1300.429	3$^-$	[M1,E2]	0.7 *5*	α(K)=0.5 *4*; α(L)=0.14 *5*; α(M)=0.035 *11* α(N)=0.0098 *29*; α(O)=0.0025 *8*; α(P)=4.6×10^{-4} *17*; α(Q)=2.5×10^{-5} *20* %Iγ=0.0186 *15*
325.61 *8*	0.24 *4*	1947.07	2$^+$,3,4$^+$	1621.483	3$^-$			%Iγ=0.0060 *10*
327.81 *17*	0.12 *4*	1451.882	1$^+$	1124.257	2$^+$	[M1,E2]	0.6 *5*	α(K)=0.5 *4*; α(L)=0.13 *5*; α(M)=0.033 *10* α(N)=0.0092 *28*; α(O)=0.0023 *8*; α(P)=4.4×10^{-4} *17*; α(Q)=2.4×10^{-5} *19* %Iγ=0.0030 *10*
[x]329.87 *14*	0.13 *4*							%Iγ=0.0032 *10*
343.93 *4*	1.04 *4*	1593.693	2$^-$	1249.766	1$^-$	[M1,E2]	0.6 *4*	α(K)=0.42 *35*; α(L)=0.11 *4*; α(M)=0.029 *10*

From ENSDF

$^{246}_{96}Cm_{150}$-6

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ[†]	I_γ[†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ	α[f]	Comments
									α(N)=0.0079 *26*; α(O)=0.0020 *7*; α(P)=3.8×10^{-4} *15*; α(Q)=2.1×10^{-5} *17* %Iγ=0.0258 *15*
347.26[i] *4*	0.97 *5*	1856.55	3$^+$	1509.26	(3$^+$)				%Iγ=0.0241 *17* Mult.: α(K)exp=4.4 *8* (1976Mu03). Theory: α(K)(M1)=0.806, α(K)(E2)=0.0632. Since this ce(K) is only 0.5 keV from the ce(L1) of the strong 244.03γ, and since 1976Mu03 do not give the Ice(L)(244.03γ) the α(K)exp must be considered questionable.
354.45 *6*	0.26 *4*	1604.161	(1$^-$)	1249.766	1$^-$	[M1,E2]		0.5 *4*	α(K)=0.38 *32*; α(L)=0.10 *4*; α(M)=0.026 *9* α(N)=0.0072 *25*; α(O)=0.0018 *7*; α(P)=3.4×10^{-4} *14*; α(Q)=1.9×10^{-5} *15* %Iγ=0.0065 *10*
360.39 *4*	2.29 *9*	1525.917	3$^-$	1165.473	3$^+$	E1+M2	1.1 *+8−4*	1.4 *6*	α(K)=1.0 *4*; α(L)=0.30 *13*; α(M)=0.078 *33* α(N)=0.022 *9*; α(O)=0.0055 *23*; α(P)=0.0011 *5*; α(Q)=7.1×10^{-5} *30* %Iγ=0.0568 *34* Mult.,δ: α(K)exp=1.0 *4* (1976Mu03). M1 given by 1976Mu03 but disagrees with assignment in level scheme.
361.85[i] *9*	0.49 *6*	1983.33	(1$^-$,2$^+$)	1621.483	3$^-$				%Iγ=0.0122 *16*
370.81[i] *13*	0.17 *4*	2032.49	1,2$^+$	1661.651	(1$^+$)				%Iγ=0.0042 *10*
373.36 *5*	0.84 *5*	1249.766	1$^-$	876.431	3$^-$	[E2]		0.1251 *18*	α(K)=0.0549 *8*; α(L)=0.0512 *7*; α(M)=0.01397 *20* α(N)=0.00388 *5*; α(O)=0.000952 *13*; α(P)=0.0001682 *24*; α(Q)=3.64×10^{-6} *5* %Iγ=0.0208 *16*
377.2 *2*	0.11 *4*	1300.429	3$^-$	923.297	4$^-$	[M1,E2]		0.44 *32*	α(K)=0.33 *27*; α(L)=0.09 *4*; α(M)=0.022 *8* α(N)=0.0059 *22*; α(O)=0.0015 *6*; α(P)=2.8×10^{-4} *12*; α(Q)=1.6×10^{-5} *13* %Iγ=0.0027 *10*
381.0[h] *3*	0.06[h] *2*	1509.26	(3$^+$)	1128.009	3$^-$	[E1]		0.0264 *4*	α(K)=0.02089 *29*; α(L)=0.00413 *6*; α(M)=0.001002 *14* α(N)=0.000273 *4*; α(O)=6.86×10^{-5} *10*; α(P)=1.294×10^{-5} *18*; α(Q)=7.65×10^{-7} *11* %Iγ=0.0015 *5*
381.0[h] *3*	0.06[h] *2*	1601.219	(2,3)$^+$	1219.87	4$^+$	[M1,E2]		0.43 *31*	α(K)=0.32 *26*; α(L)=0.083 *35*; α(M)=0.021 *8* α(N)=0.0058 *22*; α(O)=0.0014 *6*; α(P)=2.8×10^{-4} *12*; α(Q)=1.6×10^{-5} *12* %Iγ=0.0015 *5*
383.73 *6*	0.75 *8*	1633.521	(2)$^-$	1249.766	1$^-$	(M1)		0.724 *10*	α(K)=0.570 *8*; α(L)=0.1158 *16*; α(M)=0.0283 *4*

From ENSDF

$^{246}_{96}Cm_{150}$-7

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
								α(N)=0.00776 *11*; α(O)=0.001976 *28*; α(P)=0.000389 *5*; α(Q)=2.77×10^{-5} *4* %Iγ=0.0186 *22* Mult.: α(K)exp=0.68 *10* (1976Mu03).
398.14 *12*	0.33 *5*	1525.917	3$^-$	1128.009	3$^-$	[M1,E2]	0.38 *27*	α(K)=0.28 *23*; α(L)=0.073 *32*; α(M)=0.018 *7* α(N)=0.0050 *20*; α(O)=0.0013 *5*; α(P)=2.4×10^{-4} *11*; α(Q)=1.4×10^{-5} *11* %Iγ=0.0082 *13*
401.68 *3*	10.7 *3*	1525.917	3$^-$	1124.257	2$^+$	E1	0.02368 *33*	α(K)=0.01879 *26*; α(L)=0.00368 *5*; α(M)=0.000894 *13* α(N)=0.0002438 *34*; α(O)=6.12×10^{-5} *9*; α(P)=1.157×10^{-5} *16*; α(Q)=6.91×10^{-7} *10* %Iγ=0.265 *14* Mult.: α(K)exp<0.03 (1976Mu03).
407.99 *6*	0.41 *4*	1249.766	1$^-$	841.668	2$^-$	[M1,E2]	0.36 *26*	α(K)=0.26 *22*; α(L)=0.068 *30*; α(M)=0.017 *7* α(N)=0.0047 *19*; α(O)=0.0012 *5*; α(P)=2.3×10^{-4} *10*; α(Q)=1.3×10^{-5} *10* %Iγ=0.0102 *11*
414.16 *6*	0.42 *5*	1780.799	2$^+$	1366.619	(2$^-$)	[E1]	0.02227 *31*	α(K)=0.01768 *25*; α(L)=0.00345 *5*; α(M)=0.000837 *12* α(N)=0.0002283 *32*; α(O)=5.74×10^{-5} *8*; α(P)=1.085×10^{-5} *15*; α(Q)=6.52×10^{-7} *9* %Iγ=0.0104 *13*
421.08 *5*	0.89 *7*	1525.917	3$^-$	1104.854	2$^-$	[M1,E2]	0.33 *24*	α(K)=0.24 *20*; α(L)=0.062 *28*; α(M)=0.015 *6* α(N)=0.0043 *17*; α(O)=0.0011 *5*; α(P)=2.1×10^{-4} *10*; α(Q)=1.2×10^{-5} *9* %Iγ=0.0221 *20*
423.4[h] *5*	0.16[h] *7*	1300.429	3$^-$	876.431	3$^-$	[M1,E2]	0.32 *23*	α(K)=0.24 *20*; α(L)=0.061 *28*; α(M)=0.015 *6* α(N)=0.0042 *17*; α(O)=0.0011 *5*; α(P)=2.0×10^{-4} *9*; α(Q)=1.2×10^{-5} *9* %Iγ=0.0040 *18*
423.4[h] *5*	0.16[h] *7*	1633.521	(2)$^-$	1210.52	2$^+$	[E1]	0.02130 *30*	α(K)=0.01693 *24*; α(L)=0.00329 *5*; α(M)=0.000798 *11* α(N)=0.0002178 *31*; α(O)=5.47×10^{-5} *8*; α(P)=1.037×10^{-5} *15*; α(Q)=6.25×10^{-7} *9* %Iγ=0.0040 *18*
434.92 *13*	0.35 *11*	1886.756	(1$^+$)	1451.882	1$^+$	(M1+E0)	1.2 *2*	%Iγ=0.0087 *28* Mult.: α(K)exp=0.9 *3* (1976Mu03). From α(K)exp the transition is either M1+E0 or M2.
443.25 *18*	0.14 *4*	1366.619	(2$^-$)	923.297	4$^-$	[E2]	0.0792 *11*	α(K)=0.0408 *6*; α(L)=0.0281 *4*; α(M)=0.00758 *11* α(N)=0.002098 *30*; α(O)=0.000517 *7*; α(P)=9.26×10^{-5} *13*; α(Q)=2.477×10^{-6} *35* %Iγ=0.0035 *10*
446.8 *5*	0.05 *4*	1525.917	3$^-$	1078.844	1$^-$	[E2]	0.0776 *11*	α(K)=0.0402 *6*; α(L)=0.0273 *4*; α(M)=0.00737 *11* α(N)=0.002041 *30*; α(O)=0.000503 *7*; α(P)=9.01×10^{-5} *13*;

From ENSDF

$^{246}_{96}Cm_{150}$-8

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ[†]	I_γ[†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ	α[f]	Comments
									α(Q)=2.435×10^{-6} *35* %Iγ=0.0012 *10*
451.2[h] *2*	0.10[h] *4*	1661.651	(1$^+$)	1210.52	2$^+$	[M1,E2]		0.27 *19*	α(K)=0.20 *16*; α(L)=0.050 *24*; α(M)=0.013 *5* α(N)=0.0035 *15*; α(O)=9; α(P)=1.7×10^{-4} *8*; α(Q)=1.0×10^{-5} *8* %Iγ=0.0025 *10*
451.2[h] *2*	0.10[h] *4*	1670.990	(3$^-$)	1219.87	4$^+$	[E1]		0.01878 *26*	α(K)=0.01495 *21*; α(L)=0.00288 *4*; α(M)=0.000698 *10* α(N)=0.0001904 *27*; α(O)=4.79×10^{-5} *7*; α(P)=9.09×10^{-6} *13*; α(Q)=5.55×10^{-7} *8* %Iγ=0.0025 *10*
456.11 *6*	0.56 *7*	1621.483	3$^-$	1165.473	3$^+$	[E1]		0.01838 *26*	α(K)=0.01464 *20*; α(L)=0.00282 *4*; α(M)=0.000682 *10* α(N)=0.0001861 *26*; α(O)=4.68×10^{-5} *7*; α(P)=8.89×10^{-6} *12*; α(Q)=5.44×10^{-7} *8* %Iγ=0.0139 *19*
461.2[i] *2*	0.13 *5*	1680.80	(2$^+$)	1219.87	4$^+$	[E2]		0.0717 *10*	α(K)=0.0381 *5*; α(L)=0.02459 *35*; α(M)=0.00661 *9* α(N)=0.001830 *26*; α(O)=0.000452 *6*; α(P)=8.11×10^{-5} *11*; α(Q)=2.273×10^{-6} *32* %Iγ=0.0032 *13*
465.61 *5*	1.03 *8*	1593.693	2$^-$	1128.009	3$^-$	[M1,E2]		0.25 *18*	α(K)=0.19 *15*; α(L)=0.046 *22*; α(M)=0.012 *5* α(N)=0.0032 *14*; α(O)=8; α(P)=1.5×10^{-4} *7*; α(Q)=9 %Iγ=0.0255 *23*
469.71 *8*	0.41 *5*	1593.693	2$^-$	1124.257	2$^+$	[E1]		0.01735 *24*	%Iγ=0.0102 *13* α(K)=0.01383 *19*; α(L)=0.00265 *4*; α(M)=0.000641 *9* α(N)=0.0001750 *25*; α(O)=4.40×10^{-5} *6*; α(P)=8.37×10^{-6} *12*; α(Q)=5.15×10^{-7} *7* E_γ: poor fit.
472.33 *5*	1.47 *7*	1348.860	1$^-$	876.431	3$^-$	[E2]		0.0676 *9*	α(K)=0.0366 *5*; α(L)=0.02272 *32*; α(M)=0.00610 *9* α(N)=0.001688 *24*; α(O)=0.000417 *6*; α(P)=7.50×10^{-5} *10*; α(Q)=2.159×10^{-6} *30* %Iγ=0.0365 *24*
476.89 *5*	0.86 *6*	1601.219	(2,3)$^+$	1124.257	2$^+$	(M1)		0.400 *6*	α(K)=0.315 *4*; α(L)=0.0638 *9*; α(M)=0.01555 *22* α(N)=0.00427 *6*; α(O)=0.001087 *15*; α(P)=0.0002139 *30*; α(Q)=1.524×10^{-5} *21* %Iγ=0.0213 *18* Mult.: α(K)exp=0.34 *8* (1976Mu03).
487.2 *3*	0.37 *8*	1661.651	(1$^+$)	1174.72	0$^+$	[M1]		0.378 *5*	α(K)=0.298 *4*; α(L)=0.0601 *8*; α(M)=0.01467 *21* α(N)=0.00403 *6*; α(O)=0.001025 *14*; α(P)=0.0002017 *28*; α(Q)=1.438×10^{-5} *20* %Iγ=0.0092 *20*
488.82 *4*	3.70 *14*	1593.693	2$^-$	1104.854	2$^-$	M1+E2	0.25 *20*	0.356 *35*	α(K)=0.280 *29*; α(L)=0.057 *4*; α(M)=0.0140 *10*

From ENSDF

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ	α [f]	Comments
									α(N)=0.00384 *28*; α(O)=0.00098 *7*; α(P)=0.000192 *15*; α(Q)=1.35×10^{-5} *14* %Iγ=0.092 *6* Mult.: α(K)exp=0.280 *20*, K/L=5.0 *17* (1976Mu03).
493.46 *4*	4.34 *15*	1621.483	3$^-$	1128.009	3$^-$	(M1)		0.365 *5*	α(K)=0.288 *4*; α(L)=0.0581 *8*; α(M)=0.01416 *20* α(N)=0.00389 *5*; α(O)=0.000990 *14*; α(P)=0.0001948 *27*; α(Q)=1.388×10^{-5} *19* %Iγ=0.108 *6* Mult.: α(K)exp=0.350 *20*, K/L=4.6 *10* (1976Mu03).
505.61[h] *13*	0.49[h] *9*	1633.521	(2)$^-$	1128.009	3$^-$	[c]			%Iγ=0.0122 *23*
505.61[h] *13*	0.49[h] *9*	1670.990	(3$^-$)	1165.473	3$^+$	[E1][c]		0.01504 *21*	α(K)=0.01201 *17*; α(L)=0.002278 *32*; α(M)=0.000551 *8* α(N)=0.0001503 *21*; α(O)=3.79×10^{-5} *5*; α(P)=7.22×10^{-6} *10*; α(Q)=4.50×10^{-7} *6* %Iγ=0.0122 *23*
507.10 *5*	2.70 *12*	1348.860	1$^-$	841.668	2$^-$	[c]			%Iγ=0.067 *4*
514.79 *4*	3.48 *15*	1593.693	2$^-$	1078.844	1$^-$	M1+(E2)	0.4 *4*	0.29 *7*	α(K)=0.23 *6*; α(L)=0.047 *9*; α(M)=0.0115 *20* α(N)=0.0032 *6*; α(O)=0.00080 *14*; α(P)=0.000157 *30*; α(Q)=1.09×10^{-5} *27* %Iγ=0.086 *5* Mult.: α(K)exp=0.23 *6* (1976Mu03).
516.60 *13*	0.40 *10*	1621.483	3$^-$	1104.854	2$^-$	[M1,E2]		0.19 *13*	α(K)=0.14 *11*; α(L)=0.034 *17*; α(M)=0.009 *4* α(N)=0.0023 *11*; α(O)=5.9×10^{-4} *28*; α(P)=1.1×10^{-4} *6*; α(Q)=7 %Iγ=0.0099 *25*
[x]522.53 *5*	1.85 *8*					(M1)		0.312 *4*	α(K)=0.2463 *34*; α(L)=0.0497 *7*; α(M)=0.01212 *17* α(N)=0.00332 *5*; α(O)=0.000847 *12*; α(P)=0.0001666 *23*; α(Q)=1.187×10^{-5} *17* %Iγ=0.0459 *29* Mult.: α(K)exp=0.22 *6* (1976Mu03).
524.92 *4*	2.95 *11*	1366.619	(2$^-$)	841.668	2$^-$	M1+(E2)	0.4 *5*	0.27 *8*	α(K)=0.21 *7*; α(L)=0.045 *10*; α(M)=0.0109 *24* α(N)=0.0030 *6*; α(O)=0.00076 *17*; α(P)=0.000149 *34*; α(Q)=1.03×10^{-5} *31* %Iγ=0.073 *4* Mult.: α(K)exp=0.22 *6* (1976Mu03).
528.69 *7*	0.60 *6*	1633.521	(2)$^-$	1104.854	2$^-$	(M1)		0.303 *4*	α(K)=0.2386 *33*; α(L)=0.0481 *7*; α(M)=0.01173 *16* α(N)=0.00322 *5*; α(O)=0.000820 *11*; α(P)=0.0001613 *23*; α(Q)=1.150×10^{-5} *16* %Iγ=0.0149 *16* Mult.: α(K)exp=0.31 *9* (1976Mu03).
542.92 *5*	1.6 *2*	1670.990	(3$^-$)	1128.009	3$^-$	(M1+E2)	0.5 *4*	0.24 *6*	α(K)=0.18 *5*; α(L)=0.039 *8*; α(M)=0.0095 *18*

From ENSDF

$^{246}_{96}Cm_{150}$-10

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ	α[f]	Comments
									α(N)=0.0026 *5*; α(O)=0.00066 *12*; α(P)=0.000130 *25*; α(Q)=8.9×10^{-6} *23* %Iγ=0.040 *5* Mult.,δ: α(K)exp=0.18 *5* (1976Mu03).
554.4 *2*	0.89 *7*	1659.19	(1$^-$)	1104.854	2$^-$	(M1,E2)[e]		0.16 *11*	α(K)=0.12 *9*; α(L)=0.028 *14*; α(M)=0.0070 *34* α(N)=0.0019 *9*; α(O)=4.8×10^{-4} *24*; α(P)=9; α(Q)=6 %Iγ=0.0221 *20*
554.68 *6*	0.59 *6*	1633.521	(2)$^-$	1078.844	1$^-$	(M1,E2)[e]		0.16 *11*	α(K)=0.12 *9*; α(L)=0.028 *14*; α(M)=0.0070 *33* α(N)=0.0019 *9*; α(O)=4.8×10^{-4} *24*; α(P)=9; α(Q)=6 %Iγ=0.0146 *16*
566.12 *5*	1.72 *10*	1670.990	(3$^-$)	1104.854	2$^-$	M1+(E2)	0.3 *4*	0.23 *5*	α(K)=0.18 *4*; α(L)=0.038 *7*; α(M)=0.0092 *16* α(N)=0.0025 *4*; α(O)=0.00064 *11*; α(P)=0.000126 *23*; α(Q)=8.9×10^{-6} *20* %Iγ=0.0427 *31* Mult.,δ: α(K)exp=0.18 *4* (1976Mu03).
577.9[i] *3*	0.34 *9*	2171.41	2$^+$,3	1593.693	2$^-$				%Iγ=0.0084 *23*
580.9[h] *3*	0.34[h] *9*	1870.19	1,2$^+$	1289.32	0$^+$				%Iγ=0.0084 *23*
580.9[h] *3*	0.34[h] *9*	2032.49	1,2$^+$	1451.882	1$^+$				%Iγ=0.0084 *23*
602.54 *6*	9.4 *5*	1525.917	3$^-$	923.297	4$^-$	E2+M1	3.2 *+21−8*	0.054 *10*	α(K)=0.037 *8*; α(L)=0.0127 *14*; α(M)=0.00327 *32* α(N)=0.00090 *9*; α(O)=0.000225 *23*; α(P)=4.2×10^{-5} *5*; α(Q)=1.9×10^{-6} *4* %Iγ=0.233 *16* Mult.,δ: α(K)exp=0.037 *8* (1976Mu03).
609.98 *9*	1.8 *3*	1451.882	1$^+$	841.668	2$^-$	E1		0.01055 *15*	%Iγ=0.045 *8* α(K)=0.00847 *12*; α(L)=0.001568 *22*; α(M)=0.000378 *5* α(N)=0.0001032 *14*; α(O)=2.60×10^{-5} *4*; α(P)=4.99×10^{-6} *7*; α(Q)=3.21×10^{-7} *4* Mult.: α(K)exp<0.012 *6* (1976Mu03).
636.72[h] *12*	0.48[h] *11*	1478.42	(2$^+$)	841.668	2$^-$	[E1]		0.00975 *14*	α(K)=0.00783 *11*; α(L)=0.001443 *20*; α(M)=0.000348 *5* α(N)=9.49×10^{-5} *13*; α(O)=2.396×10^{-5} *34*; α(P)=4.60×10^{-6} *6*; α(Q)=2.98×10^{-7} *4* %Iγ=0.0119 *28*
636.72[h#i] *12*	0.48[h] *11*	1856.55	3$^+$	1219.87	4$^+$	[M1,E2]		0.11 *7*	α(K)=0.08 *6*; α(L)=0.019 *10*; α(M)=0.0047 *24* α(N)=0.0013 *6*; α(O)=3.3×10^{-4} *17*; α(P)=6.4×10^{-5} *34*; α(Q)=4.1×10^{-6} *29* %Iγ=0.0119 *28*
649.48 *4*	14.8 *5*	1525.917	3$^-$	876.431	3$^-$	E2+M1	1.96 *+31−23*	0.062 *6*	α(K)=0.045 *5*; α(L)=0.0124 *9*; α(M)=0.00315 *20*

From ENSDF

$^{246}_{96}Cm_{150}$-11

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ	α [f]	Comments
									α(N)=0.00087 *6*; α(O)=0.000218 *14*; α(P)=4.14×10^{-5} *29*; α(Q)=2.24×10^{-6} *24* %Iγ=0.367 *21* Mult.,δ: α(K)exp=0.045 *5* (1976Mu03).
656.35 *14*	0.47 *11*	1780.799	2$^+$	1124.257	2$^+$	M1+E0			%Iγ=0.0117 *28* Mult.: α(K)exp=0.63 *18* (1976Mu03).
670.1 *2*	0.33 *12*	1593.693	2$^-$	923.297	4$^-$	[E2]		0.0306 *4*	α(K)=0.02004 *28*; α(L)=0.00779 *11*; α(M)=0.002031 *28* α(N)=0.000561 *8*; α(O)=0.0001395 *20*; α(P)=2.58×10^{-5} *4*; α(Q)=1.048×10^{-6} *15* %Iγ=0.0082 *30*
677.86 *6*	1.81 *15*	1601.219	(2,3)$^+$	923.297	4$^-$	[E1]		0.00869 *12*	α(K)=0.00699 *10*; α(L)=0.001280 *18*; α(M)=0.000308 *4* α(N)=8.41×10^{-5} *12*; α(O)=2.124×10^{-5} *30*; α(P)=4.09×10^{-6} *6*; α(Q)=2.67×10^{-7} *4* %Iγ=0.045 *4*
684.28 *5*	23.6 *8*	1525.917	3$^-$	841.668	2$^-$	(E2+M1)	1.24 *+11−10*	0.077 *5*	α(K)=0.059 *4*; α(L)=0.0139 *7*; α(M)=0.00345 *17* α(N)=0.00095 *5*; α(O)=0.000240 *12*; α(P)=4.63×10^{-5} *24*; α(Q)=2.86×10^{-6} *20* %Iγ=0.585 *33* Mult.,δ: α(K)exp=0.060 *4*, α(L)exp=0.012 *2* (1976Mu03).
698.27 *5*	4.7 *3*	1621.483	3$^-$	923.297	4$^-$	(M1)		0.1430 *20*	α(K)=0.1128 *16*; α(L)=0.02263 *32*; α(M)=0.00551 *8* α(N)=0.001512 *21*; α(O)=0.000385 *5*; α(P)=7.58×10^{-5} *11*; α(Q)=5.41×10^{-6} *8* %Iγ=0.117 *9* Mult.: α(K)exp=0.125 *14* (1976Mu03).
717.24 *5*	10.2 *4*	1593.693	2$^-$	876.431	3$^-$	M1		0.1330 *19*	α(K)=0.1050 *15*; α(L)=0.02104 *29*; α(M)=0.00513 *7* α(N)=0.001406 *20*; α(O)=0.000358 *5*; α(P)=7.05×10^{-5} *10*; α(Q)=5.03×10^{-6} *7* %Iγ=0.253 *15* Mult.: α(K)exp=0.106 *7* (1976Mu03).
724.79 *4*	8.6 *3*	1601.219	(2,3)$^+$	876.431	3$^-$	E1		0.00770 *11*	α(K)=0.00621 *9*; α(L)=0.001128 *16*; α(M)=0.000271 *4* α(N)=7.40×10^{-5} *10*; α(O)=1.871×10^{-5} *26*; α(P)=3.60×10^{-6} *5*; α(Q)=2.380×10^{-7} *33* %Iγ=0.213 *12* Mult.: α(K)exp<0.007 (1976Mu03).
732.5[h] *2*	0.61[h] *17*	1856.55	3$^+$	1124.257	2$^+$	[M1,E2]		0.08 *5*	α(K)=0.06 *4*; α(L)=0.013 *7*; α(M)=0.0032 *16* α(N)=9; α(O)=2.2×10^{-4} *12*; α(P)=4.3×10^{-5} *23*; α(Q)=2.8×10^{-6} *19* %Iγ=0.015 *4*
732.5[h] *2*	0.61[h] *17*	1898.07	2$^+$	1165.473	3$^+$	[M1,E2]		0.08 *5*	α(K)=0.06 *4*; α(L)=0.013 *7*; α(M)=0.0032 *16*

From ENSDF

$^{246}_{96}Cm_{150}$-12

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
								α(N)=9; α(O)=2.2×10^{-4} *12*; α(P)=4.3×10^{-5} *23*; α(Q)=2.8×10^{-6} *19* %Iγ=0.015 *4*
734.41 *4*	47.1 *14*	876.431	3$^-$	141.986	4$^+$	E1	0.00752 *11*	%Iγ=1.17 *6* α(K)=0.00606 *8*; α(L)=0.001100 *15*; α(M)=0.000264 *4* α(N)=7.22×10^{-5} *10*; α(O)=1.825×10^{-5} *26*; α(P)=3.52×10^{-6} *5*; α(Q)=2.327×10^{-7} *33* Mult.: As given in the Adopted Gammas. Mult.: α(K)exp<0.007, K/L<0.3 (1976Mu03). E1 α(K)exp is in agreement with the BrIcc value of 0.00606 *9*, however disagrees with the ratio of 5.51 *11* from BrIcc.
745.05 *4*	9.5 *3*	1621.483	3$^-$	876.431	3$^-$	(M1+E0)		%Iγ=0.236 *13* α(K)exp=0.144 *18* (1976Mu03).
747.74 *8*	1.0 *2*	1670.990	(3$^-$)	923.297	4$^-$	[M1,E2]	0.07 *5*	α(K)=0.06 *4*; α(L)=0.012 *7*; α(M)=0.0030 *15* α(N)=8; α(O)=2.1×10^{-4} *11*; α(P)=4.1×10^{-5} *22*; α(Q)=2.7×10^{-6} *18* %Iγ=0.025 *5*
751.0 *3*	1.4 *5*	1875.52	1,2$^+$	1124.257	2$^+$			%Iγ=0.035 *13*
752.06 *4*	33.0 *12*	1593.693	2$^-$	841.668	2$^-$	(M1+E0)		%Iγ=0.82 *5* Mult.: α(K)exp=0.143 *6* (1976Mu03).
759.59 *4*	25.9 *8*	1601.219	(2,3)$^+$	841.668	2$^-$	E1	0.00708 *10*	α(K)=0.00571 *8*; α(L)=0.001033 *14*; α(M)=0.0002482 *35* α(N)=6.77×10^{-5} *9*; α(O)=1.713×10^{-5} *24*; α(P)=3.30×10^{-6} *5*; α(Q)=2.196×10^{-7} *31* %Iγ=0.642 *35* Mult.: α(K)exp<0.006 (1976Mu03).
[x]776.3 *3*	0.16 *5*							%Iγ=0.0040 *13*
779.76 *8*	2.7 *4*	1621.483	3$^-$	841.668	2$^-$	M1	0.1063 *15*	α(K)=0.0840 *12*; α(L)=0.01679 *24*; α(M)=0.00409 *6* α(N)=0.001122 *16*; α(O)=0.000286 *4*; α(P)=5.62×10^{-5} *8*; α(Q)=4.01×10^{-6} *6* %Iγ=0.067 *11* Mult.: α(K)exp=0.089 *23* (1976Mu03).
781.28 *6*	6.8 *5*	923.297	4$^-$	141.986	4$^+$	[E1]	0.00674 *9*	α(K)=0.00544 *8*; α(L)=0.000980 *14*; α(M)=0.0002355 *33* α(N)=6.43×10^{-5} *9*; α(O)=1.626×10^{-5} *23*; α(P)=3.14×10^{-6} *4*; α(Q)=2.094×10^{-7} *29* %Iγ=0.169 *15*
791.5 *2*	2.6 *5*	1633.521	(2)$^-$	841.668	2$^-$	[M1,E2]	0.06 *4*	α(K)=0.048 *33*; α(L)=0.011 *6*; α(M)=0.0026 *13* α(N)=7; α(O)=1.8×10^{-4} *9*; α(P)=3.5×10^{-5} *19*; α(Q)=2.3×10^{-6} *16* %Iγ=0.065 *13*
798.80 *4*	1000	841.668	2$^-$	42.835	2$^+$	E1	0.00648 *9*	α(K)=0.00523 *7*; α(L)=0.000941 *13*; α(M)=0.0002259 *32* α(N)=6.17×10^{-5} *9*; α(O)=1.560×10^{-5} *22*; α(P)=3.01×10^{-6} *4*; α(Q)=2.016×10^{-7} *28*

From ENSDF

$^{246}_{96}Cm_{150}$-13

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
								%Iγ=25 Mult.: α(K)exp=0.0052 *2*, K/L=5.6 *11* (1976Mu03).
[x]810.2 *3*	0.25 *11*							%Iγ=0.0062 *28* Mult.: α(K)exp=0.4 *2* (1976Mu03). 1976Mu03 suggests that this is a M1+E0 γ deexciting to the 1289 *0+* level. However, in that case, the γ must have pure multipolarity.
820.7[#i] *3*	0.15 *9*	1661.651	(1$^+$)	841.668	2$^-$	[E1]	0.00617 *9*	α(K)=0.00499 *7*; α(L)=0.000895 *13*; α(M)=0.0002149 *30* α(N)=5.87×10^{-5} *8*; α(O)=1.484×10^{-5} *21*; α(P)=2.87×10^{-6} *4*; α(Q)=1.926×10^{-7} *27* %Iγ=0.0037 *23*
829.37 *8*	0.72 *14*	1670.990	(3$^-$)	841.668	2$^-$	[M1,E2]	0.055 *35*	α(K)=0.043 *29*; α(L)=0.009 *5*; α(M)=0.0023 *12* α(N)=6.3×10^{-4} *32*; α(O)=1.6×10^{-4} *8*; α(P)=3.1×10^{-5} *17*; α(Q)=2.0×10^{-6} *14* %Iγ=0.018 *4*
833.60 *4*	72 *2*	876.431	3$^-$	42.835	2$^+$	E1	0.00601 *8*	α(K)=0.00485 *7*; α(L)=0.000870 *12*; α(M)=0.0002088 *29* α(N)=5.70×10^{-5} *8*; α(O)=1.442×10^{-5} *20*; α(P)=2.79×10^{-6} *4*; α(Q)=1.876×10^{-7} *26* %Iγ=1.79 *9* Mult.: α(K)exp=0.0043 *8* (1976Mu03).
904.42 *5*	2.31 *9*	1780.799	2$^+$	876.431	3$^-$	(E1)	0.00521 *7*	α(K)=0.00422 *6*; α(L)=0.000750 *10*; α(M)=0.0001798 *25* α(N)=4.91×10^{-5} *7*; α(O)=1.243×10^{-5} *17*; α(P)=2.408×10^{-6} *34*; α(Q)=1.636×10^{-7} *23* %Iγ=0.0573 *34* Mult.: α(K)exp<0.09 (1976Mu03); E1,M1 or E2 from α(K)exp, E1 from level scheme.
925.0[#i] *3*	0.37 *13*	1219.87	4$^+$	294.88	6$^+$	[E2]	0.01602 *22*	α(K)=0.01155 *16*; α(L)=0.00332 *5*; α(M)=0.000845 *12* α(N)=0.0002327 *33*; α(O)=5.83×10^{-5} *8*; α(P)=1.101×10^{-5} *15*; α(Q)=5.60×10^{-7} *8* %Iγ=0.0092 *33*
939.15 *5*	3.1 *2*	1780.799	2$^+$	841.668	2$^-$	(E1)	0.00488 *7*	α(K)=0.00395 *6*; α(L)=0.000701 *10*; α(M)=0.0001680 *24* α(N)=4.58×10^{-5} *6*; α(O)=1.161×10^{-5} *16*; α(P)=2.251×10^{-6} *32*; α(Q)=1.537×10^{-7} *22* %Iγ=0.077 *6* Mult.: α(K)exp<0.09 (1976Mu03); E1,M1 or E2 from α(K)exp, E1 from level scheme.
960.2 *3*	0.22 *9*	1836.73	2$^+$,1$^-$	876.431	3$^-$			%Iγ=0.0055 *23*
962.9 *4*	0.02 *2*	1104.854	2$^-$	141.986	4$^+$	[M2]	0.1366 *19*	α(K)=0.1039 *15*; α(L)=0.02438 *34*; α(M)=0.00609 *9*

From ENSDF

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
								α(N)=0.001679 *24*; α(O)=0.000427 *6*; α(P)=8.37×10^{-5} *12*; α(Q)=5.79×10^{-6} *8* %Iγ=5×10^{-4} *5*
982.73 *15*	0.7 *2*	1124.257	2$^+$	141.986	4$^+$	[E2]	0.01427 *20*	%Iγ=0.017 *5* α(K)=0.01041 *15*; α(L)=0.00287 *4*; α(M)=0.000726 *10* α(N)=0.0001998 *28*; α(O)=5.01×10^{-5} *7*; α(P)=9.50×10^{-6} *13*; α(Q)=4.99×10^{-7} *7*
986.03 *4*	38.6 *12*	1128.009	3$^-$	141.986	4$^+$	(E1)	0.00449 *6*	E_γ: poor fit. α(K)=0.00364 *5*; α(L)=0.000642 *9*; α(M)=0.0001539 *22* α(N)=4.20×10^{-5} *6*; α(O)=1.064×10^{-5} *15*; α(P)=2.065×10^{-6} *29*; α(Q)=1.417×10^{-7} *20* %Iγ=0.96 *5* Mult.: α(K)exp<0.009 (1976Mu03), α(K)exp<0.008 (1966Or01).
1023.44 *7*	1.6 *2*	1165.473	3$^+$	141.986	4$^+$	[E2]	0.01321 *18*	α(K)=0.00971 *14*; α(L)=0.00260 *4*; α(M)=0.000657 *9* α(N)=0.0001807 *25*; α(O)=4.54×10^{-5} *6*; α(P)=8.62×10^{-6} *12*; α(Q)=4.63×10^{-7} *6* %Iγ=0.040 *5*
1036.00 *4*	512 *15*	1078.844	1$^-$	42.835	2$^+$	E1 [a]	0.00412 *6*	α(K)=0.00334 *5*; α(L)=0.000588 *8*; α(M)=0.0001409 *20* α(N)=3.84×10^{-5} *5*; α(O)=9.75×10^{-6} *14*; α(P)=1.893×10^{-6} *27*; α(Q)=1.306×10^{-7} *18* %Iγ=12.7 *7* Mult.: α(K)exp≤0.003 (1966Or01); α(K)exp=0.0035 *1* (1976Mu03).
1045.08 *6*	0.73 *12*	1886.756	(1$^+$)	841.668	2$^-$	[E1]	0.00406 *6*	α(K)=0.00329 *5*; α(L)=0.000579 *8*; α(M)=0.0001387 *19* α(N)=3.79×10^{-5} *5*; α(O)=9.60×10^{-6} *13*; α(P)=1.864×10^{-6} *26*; α(Q)=1.287×10^{-7} *18* %Iγ=0.0181 *31*
[x]1045.66 *6*	0.73 *12*							%Iγ=0.0181 *31*
1062.04 *4*	691 *14*	1104.854	2$^-$	42.835	2$^+$	E1 [a]	0.00395 *6*	α(K)=0.00320 *4*; α(L)=0.000563 *8*; α(M)=0.0001348 *19* α(N)=3.68×10^{-5} *5*; α(O)=9.33×10^{-6} *13*; α(P)=1.813×10^{-6} *25*; α(Q)=1.254×10^{-7} *18* %Iγ=17.1 *9* Mult.: α(K)exp≤0.003 (1966Or01); α(K)exp=0.0033 *1* (1976Mu03).
1078.86 *4*	1120 *40*	1078.844	1$^-$	0	0$^+$	E1 [a]	0.00385 *5*	α(K)=0.00312 *4*; α(L)=0.000548 *8*; α(M)=0.0001311 *18* α(N)=3.58×10^{-5} *5*; α(O)=9.07×10^{-6} *13*; α(P)=1.764×10^{-6} *25*; α(Q)=1.222×10^{-7} *17* %Iγ=27.8 *16* Mult.: α(K)exp≤0.003 (1966Or01); α(K)exp=0.00294 *13* (1976Mu03).

From ENSDF

$^{246}_{96}Cm_{150}$-15

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ[†]	I_γ[†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[f]	Comments
1081.40 *6*	13.8 *14*	1124.257	2^+	42.835	2^+	E2[&]	0.01190 *17*	α(K)=0.00884 *12*; α(L)=0.002286 *32*; α(M)=0.000575 *8* α(N)=0.0001581 *22*; α(O)=3.98×10^{-5} *6*; α(P)=7.57×10^{-6} *11*; α(Q)=4.17×10^{-7} *6* %Iγ=0.34 *4* I_γ: Calculated from Iγ(1081)/Iγ(1124)=1.32 *13* in ^{246}Bk ε decay (1976Ah03). 1976Mu03 measured I$\gamma\approx$10.
1085.15 *6*	61.6 *19*	1128.009	3^-	42.835	2^+	E1	0.00381 *5*	α(K)=0.00309 *4*; α(L)=0.000542 *8*; α(M)=0.0001297 *18* α(N)=3.54×10^{-5} *5*; α(O)=8.98×10^{-6} *13*; α(P)=1.746×10^{-6} *24*; α(Q)=1.210×10^{-7} *17* %Iγ=1.53 *8* Mult.: α(K)exp=0.0024 *10* (1976Mu03).
[x]1102.5 *2*	0.14 *4*							%Iγ=0.0035 *10*
[x]1105.0 *5*	0.03 *2*							%Iγ=7×10^{-4} *5* Assigned by 1976Mu03 as sum peak.
[x]1113.6 *2*	0.27 *5*							%Iγ=0.0067 *13*
1122.64 *6*	4.0 *2*	1165.473	3^+	42.835	2^+	E2[b]	0.01110 *16*	α(K)=0.00829 *12*; α(L)=0.002097 *29*; α(M)=0.000526 *7* α(N)=0.0001446 *20*; α(O)=3.64×10^{-5} *5*; α(P)=6.94×10^{-6} *10*; α(Q)=3.89×10^{-7} *5* α(IPF)=2.167×10^{-7} *31* %Iγ=0.099 *7*
1124.29 *4*	10.5 *4*	1124.257	2^+	0	0^+	E2[b]	0.01107 *15*	α(K)=0.00827 *12*; α(L)=0.002090 *29*; α(M)=0.000524 *7* α(N)=0.0001441 *20*; α(O)=3.63×10^{-5} *5*; α(P)=6.92×10^{-6} *10*; α(Q)=3.88×10^{-7} *5* α(IPF)=2.327×10^{-7} *33* %Iγ=0.260 *15*
1131.88 *7*	0.44 *5*	1174.72	0^+	42.835	2^+	[E2]	0.01093 *15*	α(K)=0.00817 *11*; α(L)=0.002058 *29*; α(M)=0.000516 *7* α(N)=0.0001419 *20*; α(O)=3.57×10^{-5} *5*; α(P)=6.81×10^{-6} *10*; α(Q)=3.83×10^{-7} *5*; α(IPF)=3.19×10^{-7} *5* %Iγ=0.0109 *13*
[x]1148.62 *6*	0.74 *6*							%Iγ=0.0184 *17*
1158.47 *6*	0.50 *4*	1300.429	3^-	141.986	4^+	[E1]	0.00341 *5*	α(K)=0.00277 *4*; α(L)=0.000483 *7*; α(M)=0.0001156 *16* α(N)=3.16×10^{-5} *4*; α(O)=8.01×10^{-6} *11*; α(P)=1.559×10^{-6} *22*; α(Q)=1.087×10^{-7} *15* α(IPF)=3.52×10^{-6} *5* %Iγ=0.0124 *11*
1167.74 *5*	1.01 *6*	1210.52	2^+	42.835	2^+	E0+(M1,E2)	0.023 *13*	α(K)=0.018 *10*; α(L)=0.0038 *19*; α(M)=9 α(N)=2.5×10^{-4} *12*; α(O)=6.5×10^{-5} *31*; α(P)=1.3×10^{-5} *6*; α(Q)=9; α(IPF)=2.5×10^{-6} *13* %Iγ=0.0251 *19* Mult.: α(K)exp=0.71 *15*, K/L=4.2 *11* (1976Mu03).

From ENSDF

$^{246}_{96}Cm_{150}$-16

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	$I_{(\gamma+ce)}$ [g]	Comments
1174.72		1174.72	0^+	0	0^+	E0		0.99 *4*	Mult.: no γ observed; K/L=4.2 *5* (1976Mu03). $I_{(\gamma+ce)}$: From experimental I(ce(K))+I(ce(L)) of 1976Mu03. K/L(E0) = 4.82 (theory) (2020Do01).
1177.2 *2*	0.15 *4*	1219.87	4^+	42.835	2^+	[E2]	0.01016 *14*		α(K)=0.00764 *11*; α(L)=0.001882 *26*; α(M)=0.000471 *7* α(N)=0.0001294 *18*; α(O)=3.26×10^{-5} *5*; α(P)=6.23×10^{-6} *9*; α(Q)=3.56×10^{-7} *5* α(IPF)=1.528×10^{-6} *23* %Iγ=0.0037 *10*
1198.19[#i] *6*	1.24 *6*	1340.18		141.986	4^+				%Iγ=0.0308 *20*
[x]1203.2 *2*	0.20 *7*								%Iγ=0.0050 *18*
1206.96 *4*	6.0 *2*	1249.766	1^-	42.835	2^+	E1	0.00319 *4*		α(K)=0.00258 *4*; α(L)=0.000450 *6*; α(M)=0.0001076 *15* α(N)=2.94×10^{-5} *4*; α(O)=7.46×10^{-6} *10*; α(P)=1.452×10^{-6} *20*; α(Q)=1.017×10^{-7} *14* α(IPF)=1.208×10^{-5} *17* %Iγ=0.149 *8*
1210.35 *9*	0.45 *7*	1210.52	2^+	0	0^+	[E2]	0.00965 *14*		Mult.: α(K)exp<0.005 (1976Mu03). α(K)=0.00728 *10*; α(L)=0.001767 *25*; α(M)=0.000441 *6* α(N)=0.0001213 *17*; α(O)=3.06×10^{-5} *4*; α(P)=5.85×10^{-6} *8*; α(Q)=3.38×10^{-7} *5*; α(IPF)=3.44×10^{-6} *5* %Iγ=0.0112 *18*
1237.2 *2*	0.29 *4*	1379.21	(4^+)	141.986	4^+	[M1,E2]	0.020 *11*		α(K)=0.016 *9*; α(L)=0.0033 *16*; α(M)=8 α(N)=2.2×10^{-4} *10*; α(O)=5.6×10^{-5} *27*; α(P)=1.1×10^{-5} *5*; α(Q)=7; α(IPF)=1.2×10^{-5} *6* %Iγ=0.0072 *11*
1249.79 *4*	6.0 *2*	1249.766	1^-	0	0^+	[E1]	0.00302 *4*		α(K)=0.002438 *34*; α(L)=0.000424 *6*; α(M)=0.0001013 *14* α(N)=2.77×10^{-5} *4*; α(O)=7.02×10^{-6} *10*; α(P)=1.368×10^{-6} *19*; α(Q)=9.61×10^{-8} *13* α(IPF)=2.379×10^{-5} *33* %Iγ=0.149 *8*
1257.62 *6*	1.57 *10*	1300.429	3^-	42.835	2^+	[E1]	0.00299 *4*		Mult.: α(K)exp=0.018 *4* (1976Mu03) is in disagreement with an E1 assignment. γ is possibly a doublet. α(K)=0.002413 *34*; α(L)=0.000419 *6*; α(M)=0.0001002 *14* α(N)=2.74×10^{-5} *4*; α(O)=6.94×10^{-6} *10*; α(P)=1.353×10^{-6} *19*; α(Q)=9.51×10^{-8} *13*; α(IPF)=2.62×10^{-5} *4* %Iγ=0.0389 *30*
1274.72 *4*	10.8 *3*	1317.56?	$(2)^+$	42.835	2^+	M1	0.0285 *4*		α(K)=0.02252 *32*; α(L)=0.00446 *6*; α(M)=0.001084 *15*

$^{246}_{96}Cm_{150}$-17 From ENSDF $^{246}_{96}Cm_{150}$-17

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	$I_{(\gamma+ce)}$ [g]	Comments
									α(N)=0.000297 *4*; α(O)=7.58×10^{-5} *11*; α(P)=1.491×10^{-5} *21*; α(Q)=1.069×10^{-6} *15* α(IPF)=2.91×10^{-5} *4* %Iγ=0.268 *14*
1289.4		1289.32	0$^+$	0	0$^+$	E0		0.08 *1*	Mult.: α(K)exp=0.028 *10*, K/L1=5.0 *23* (1976Mu03). Mult.: γ not observed (1976Mu03). $I_{(\gamma+ce)}$: deduced from I(ce(K))=0.07 *1* (1976Mu03) with K/L(E0) = 4.82 (theory) (2020Do01).
1297.34[#i] *9*	0.42 *5*	1340.18		42.835	2$^+$				%Iγ=0.0104 *13*
[x]1303.20 *11*	0.35 *4*								%Iγ=0.0087 *11*
1306.8[#i] *2*	0.25 *4*	1348.860	1$^-$	42.835	2$^+$	[E1]	0.00283 *4*		%Iγ=0.0062 *10* α(K)=0.002263 *32*; α(L)=0.000392 *5*; α(M)=9.38×10^{-5} *13* α(N)=2.56×10^{-5} *4*; α(O)=6.50×10^{-6} *9*; α(P)=1.267×10^{-6} *18*; α(Q)=8.94×10^{-8} *13*; α(IPF)=4.28×10^{-5} *6* E_γ: poor fit.
1323.77 *8*	1.0 *2*	1366.619	(2$^-$)	42.835	2$^+$	[E1]	0.00277 *4*		α(K)=0.002215 *31*; α(L)=0.000384 *5*; α(M)=9.17×10^{-5} *13* α(N)=2.504×10^{-5} *35*; α(O)=6.36×10^{-6} *9*; α(P)=1.240×10^{-6} *17*; α(Q)=8.76×10^{-8} *12* α(IPF)=4.96×10^{-5} *7* %Iγ=0.025 *5*
1336.38[h] *7*	0.74[h] *5*	1379.21	(4$^+$)	42.835	2$^+$	[E2]	0.00805 *11*		α(K)=0.00614 *9*; α(L)=0.001419 *20*; α(M)=0.000352 *5* α(N)=9.68×10^{-5} *14*; α(O)=2.442×10^{-5} *34*; α(P)=4.69×10^{-6} *7*; α(Q)=2.82×10^{-7} *4* α(IPF)=1.752×10^{-5} *25* %Iγ=0.0184 *15*
1336.38[h] *7*	0.74[h] *5*	1478.42	(2$^+$)	141.986	4$^+$	[E2]	0.00805 *11*		α(K)=0.00614 *9*; α(L)=0.001419 *20*; α(M)=0.000352 *5* α(N)=9.68×10^{-5} *14*; α(O)=2.442×10^{-5} *34*; α(P)=4.69×10^{-6} *7*; α(Q)=2.82×10^{-7} *4* α(IPF)=1.752×10^{-5} *25* %Iγ=0.0184 *15*
1348.81 *4*	4.84 *17*	1348.860	1$^-$	0	0$^+$	(E1)	0.00270 *4*		α(K)=0.002147 *30*; α(L)=0.000372 *5*; α(M)=8.88×10^{-5} *12* α(N)=2.424×10^{-5} *34*; α(O)=6.15×10^{-6} *9*; α(P)=1.201×10^{-6} *17*; α(Q)=8.49×10^{-8} *12* α(IPF)=6.09×10^{-5} *9* %Iγ=0.120 *7*
1367.9 *2*	0.63 *11*	1509.26	(3$^+$)	141.986	4$^+$	[M1,E2]	0.016 *8*		Mult.: α(K)exp<0.005 (1976Mu03). %Iγ=0.0156 *28*

From ENSDF

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
								α(K)=0.012 *6*; α(L)=0.0025 *12*; α(M)=6.2×10^{-4} *28* α(N)=1.7×10^{-4} *8*; α(O)=4.3×10^{-5} *20*; α(P)=8; α(Q)=5.8×10^{-7} *31*; α(IPF)=4.6×10^{-5} *23*
[x]1379.3 *4*	0.07 *4*							E_γ: poor fit. %Iγ=0.0017 *10*
1383.94 *17*	0.22 *4*	1525.917	3$^-$	141.986	4$^+$	[E1]	0.00261 *4*	α(K)=0.002058 *29*; α(L)=0.000356 *5*; α(M)=8.50×10^{-5} *12* α(N)=2.319×10^{-5} *32*; α(O)=5.89×10^{-6} *8*; α(P)=1.150×10^{-6} *16*; α(Q)=8.15×10^{-8} *11* α(IPF)=7.87×10^{-5} *11* %Iγ=0.0055 *10*
1409.12 *8*	1.35 *7*	1451.882	1$^+$	42.835	2$^+$	(M1)	0.02181 *31*	α(K)=0.01719 *24*; α(L)=0.00340 *5*; α(M)=0.000826 *12* α(N)=0.0002267 *32*; α(O)=5.77×10^{-5} *8*; α(P)=1.137×10^{-5} *16*; α(Q)=8.16×10^{-7} *11* α(IPF)=9.37×10^{-5} *13* %Iγ=0.0335 *23* Mult.: α(K)exp=0.037 *14* (1976Mu03).
1435.59 *6*	1.04 *10*	1478.42	(2$^+$)	42.835	2$^+$	[M1,E2]	0.014 *7*	α(K)=0.011 *5*; α(L)=0.0022 *10*; α(M)=5.4×10^{-4} *24* α(N)=1.5×10^{-4} *7*; α(O)=3.8×10^{-5} *17*; α(P)=7.4×10^{-6} *34*; α(Q)=5.1×10^{-7} *26*; α(IPF)=7 %Iγ=0.0258 *27*
1451.91 *4*	1.83 *8*	1451.882	1$^+$	0	0$^+$	(M1)	0.02016 *28*	α(K)=0.01586 *22*; α(L)=0.00314 *4*; α(M)=0.000762 *11* α(N)=0.0002091 *29*; α(O)=5.33×10^{-5} *7*; α(P)=1.048×10^{-5} *15*; α(Q)=7.53×10^{-7} *11* α(IPF)=0.0001217 *17* %Iγ=0.0454 *28* Mult.: α(K)exp=0.019 *9* (1976Mu03).
1459.32 *6*	0.38 *4*	1601.219	(2,3)$^+$	141.986	4$^+$	[M1,E2]	0.013 *7*	α(K)=0.010 *5*; α(L)=0.0021 *10*; α(M)=5.2×10^{-4} *23* α(N)=1.4×10^{-4} *6*; α(O)=3.6×10^{-5} *16*; α(P)=7.1×10^{-6} *32*; α(Q)=4.9×10^{-7} *25*; α(IPF)=9 %Iγ=0.0094 *11*
1466.33 *6*	0.30 *4*	1509.26	(3$^+$)	42.835	2$^+$	[M1,E2]	0.013 *6*	α(K)=0.010 *5*; α(L)=0.0021 *9*; α(M)=5.1×10^{-4} *23* α(N)=1.4×10^{-4} *6*; α(O)=3.6×10^{-5} *16*; α(P)=7.0×10^{-6} *32*; α(Q)=4.9×10^{-7} *25*; α(IPF)=9 %Iγ=0.0074 *11*
1479.43 *4*	9.2 *3*	1621.483	3$^-$	141.986	4$^+$	E1	2.40×10^{-3} *3*	α(K)=0.001844 *26*; α(L)=0.000318 *4*; α(M)=7.59×10^{-5} *11* α(N)=2.071×10^{-5} *29*; α(O)=5.26×10^{-6} *7*; α(P)=1.028×10^{-6} *14*; α(Q)=7.32×10^{-8} *10*

From ENSDF

$^{246}_{96}Cm_{150}$-19

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ[†]	I_γ[†][g]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[f]	Comments
								α(IPF)=0.0001332 *19* %Iγ=0.228 *13* Mult.: α(K)exp<0.003 (1976Mu03).
1483.09 *9*	0.83 *7*	1525.917	3^-	42.835	2^+	[E1]	2.39×10^{-3} *3*	α(K)=0.001837 *26*; α(L)=0.000316 *4*; α(M)=7.55×10^{-5} *11* α(N)=2.062×10^{-5} *29*; α(O)=5.24×10^{-6} *7*; α(P)=1.023×10^{-6} *14*; α(Q)=7.29×10^{-8} *10* α(IPF)=0.0001354 *19* %Iγ=0.0206 *20*
1486.90[i] *7*	0.08 *6*	1628.90?		141.986	4^+			%Iγ=0.0020 *15*
[x]1497.0 *4*	0.024 *15*							%Iγ=6×10^{-4} *4*
1509.0[i] *4*	0.030 *15*	1509.26	(3^+)	0	0^+	[M3]	0.0681 *10*	α(K)=0.0510 *7*; α(L)=0.01271 *18*; α(M)=0.00320 *4* α(N)=0.000885 *12*; α(O)=0.0002249 *32*; α(P)=4.39×10^{-5} *6*; α(Q)=2.95×10^{-6} *4* α(IPF)=1.938×10^{-5} *28* %Iγ=7×10^{-4} *4*
[x]1526.30 *15*	0.55 *11*							%Iγ=0.0136 *28* Assigned by 1976Mu03 as sum peak.
1529.00 *7*	9.0 *4*	1670.990	(3^-)	141.986	4^+	(E1)[d]	2.31×10^{-3} *3*	α(K)=0.001748 *24*; α(L)=0.000301 *4*; α(M)=7.18×10^{-5} *10* α(N)=1.959×10^{-5} *27*; α(O)=4.98×10^{-6} *7*; α(P)=9.73×10^{-7} *14*; α(Q)=6.95×10^{-8} *10* α(IPF)=0.0001639 *23* %Iγ=0.223 *14*
1530.7 *5*	1.0 *2*	1573.74	(1^+)	42.835	2^+	(M1)[d]	0.01756 *25*	α(K)=0.01376 *19*; α(L)=0.00272 *4*; α(M)=0.000661 *9* α(N)=0.0001812 *25*; α(O)=4.62×10^{-5} *6*; α(P)=9.09×10^{-6} *13*; α(Q)=6.53×10^{-7} *9* α(IPF)=0.0001792 *25* %Iγ=0.025 *5*
1538.9 *2*	0.055 *19*	1680.80	(2^+)	141.986	4^+	[E2]	0.00627 *9*	α(K)=0.00481 *7*; α(L)=0.001050 *15*; α(M)=0.000259 *4* α(N)=7.10×10^{-5} *10*; α(O)=1.796×10^{-5} *25*; α(P)=3.47×10^{-6} *5*; α(Q)=2.176×10^{-7} *30* α(IPF)=6.54×10^{-5} *9* %Iγ=0.0014 *5*
[x]1540.6 *2*	0.03 *2*							%Iγ=7×10^{-4} *5*
[x]1545.0 *5*	0.09 *4*							%Iγ=0.0022 *10*
[x]1550.0 *2*	2.1 *10*							%Iγ=0.052 *25* Mult.: α(K)exp<0.01 (1976Mu03).
1550.94 *9*	11.0 *10*	1593.693	2^-	42.835	2^+	E1	2.27×10^{-3} *3*	α(K)=0.001707 *24*; α(L)=0.000294 *4*; α(M)=7.00×10^{-5} *10*

From ENSDF

$^{246}_{96}Cm_{150}$-20

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ	α [f]	Comments
									α(N)=1.912×10^{-5} *27*; α(O)=4.86×10^{-6} *7*; α(P)=9.50×10^{-7} *13*; α(Q)=6.79×10^{-8} *10* α(IPF)=0.0001780 *25* %Iγ=0.273 *28* Mult.: α(K)exp<0.003 (1976Mu03).
[x]1552.22 *16*	2.1 *10*								%Iγ=0.052 *25* Mult.: α(K)exp<0.01 (1976Mu03).
1558.35 *10*	0.68 *7*	1601.219	(2,3)$^+$	42.835	2$^+$	[M1,E2]		0.011 *5*	α(K)=0.009 *4*; α(L)=0.0018 *8*; α(M)=4.4×10^{-4} *19* α(N)=1.2×10^{-4} *5*; α(O)=3.1×10^{-5} *13*; α(P)=6.0×10^{-6} *26*; α(Q)=4.2×10^{-7} *20*; α(IPF)=1.4×10^{-4} *6* %Iγ=0.0169 *19*
1561.30 *5*	3.84 *15*	1604.161	(1$^-$)	42.835	2$^+$	[E1]		2.26×10^{-3} *3*	α(K)=0.001689 *24*; α(L)=0.000290 *4*; α(M)=6.93×10^{-5} *10* α(N)=1.891×10^{-5} *26*; α(O)=4.81×10^{-6} *7*; α(P)=9.39×10^{-7} *13*; α(Q)=6.72×10^{-8} *9* α(IPF)=0.0001848 *26* %Iγ=0.095 *6* Mult.: α(K)exp<0.005 (1976Mu03).
1570.46 *7*	0.62 *5*	1712.37	(3$^+$)	141.986	4$^+$	[M1,E2]		0.011 *5*	α(K)=0.009 *4*; α(L)=0.0018 *8*; α(M)=4.3×10^{-4} *18* α(N)=1.2×10^{-4} *5*; α(O)=3.0×10^{-5} *13*; α(P)=5.9×10^{-6} *26*; α(Q)=4.1×10^{-7} *20*; α(IPF)=1.4×10^{-4} *7* %Iγ=0.0154 *14*
1573.74 *5*	1.95 *8*	1573.74	(1$^+$)	0	0$^+$	(M1)		0.01634 *23*	α(K)=0.01277 *18*; α(L)=0.002521 *35*; α(M)=0.000613 *9* α(N)=0.0001681 *24*; α(O)=4.28×10^{-5} *6*; α(P)=8.43×10^{-6} *12*; α(Q)=6.06×10^{-7} *8* α(IPF)=0.0002136 *30* %Iγ=0.0484 *29* Mult.: α(K)exp=0.014 *5* (1976Mu03).
1578.62 *5*	3.12 *12*	1621.483	3$^-$	42.835	2$^+$	[E1]		2.23×10^{-3} *3*	α(K)=0.001659 *23*; α(L)=0.000285 *4*; α(M)=6.80×10^{-5} *10* α(N)=1.856×10^{-5} *26*; α(O)=4.72×10^{-6} *7*; α(P)=9.22×10^{-7} *13*; α(Q)=6.60×10^{-8} *9* α(IPF)=0.0001962 *27* %Iγ=0.077 *5* Mult.: α(K)exp<0.005 (1976Mu03).
1586.1[i] *2*	0.2 *1*	1628.90?		42.835	2$^+$				%Iγ=0.0050 *25*
1590.68 *5*	21.0 *15*	1633.521	(2)$^-$	42.835	2$^+$	E1+M2	0.12 *8*	0.0027 *8*	α(K)=0.0020 *6*; α(L)=3.6×10^{-4} *14*; α(M)=8.7×10^{-5} *35* α(N)=2.4×10^{-5} *10*; α(O)=6.1×10^{-6} *24*; α(P)=1.2×10^{-6} *5*; α(Q)=8.5×10^{-8} *34*; α(IPF)=0.000202 *4*

From ENSDF

$^{246}_{96}Cm_{150}$-21

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
								%Iγ=0.52 *5* Mult.: α(K)exp=0.0020 *6* (1976Mu03).
[x]1601.8 *3*	0.11 *5*							%Iγ=0.0027 *13*
1604.14 *5*	4.11 *15*	1604.161	(1$^-$)	0	0$^+$	[E1]	2.20×10^{-3} *3*	α(K)=0.001616 *23*; α(L)=0.000277 *4*; α(M)=6.62×10^{-5} *9* α(N)=1.807×10^{-5} *25*; α(O)=4.59×10^{-6} *6*; α(P)=8.98×10^{-7} *13*; α(Q)=6.44×10^{-8} *9* α(IPF)=0.0002133 *30* %Iγ=0.102 *6* Mult.: α(K)exp<0.005 (1976Mu03).
1616.3 *2*	0.12 *3*	1659.19	(1$^-$)	42.835	2$^+$	[E1]	2.18×10^{-3} *3*	α(K)=0.001596 *22*; α(L)=0.000274 *4*; α(M)=6.53×10^{-5} *9* α(N)=1.784×10^{-5} *25*; α(O)=4.53×10^{-6} *6*; α(P)=8.87×10^{-7} *12*; α(Q)=6.36×10^{-8} *9* α(IPF)=0.0002215 *31* %Iγ=0.0030 *8*
1618.80 *4*	4.64 *18*	1661.651	(1$^+$)	42.835	2$^+$	(M1)	0.01519 *21*	α(K)=0.01183 *17*; α(L)=0.002335 *33*; α(M)=0.000568 *8* α(N)=0.0001557 *22*; α(O)=3.97×10^{-5} *6*; α(P)=7.81×10^{-6} *11*; α(Q)=5.61×10^{-7} *8* α(IPF)=0.0002516 *35* %Iγ=0.115 *7* Mult.: α(K)exp=0.014 *2* (1976Mu03).
1628.17 *5*	2.21 *11*	1670.990	(3$^-$)	42.835	2$^+$	(E1)	2.16×10^{-3} *3*	α(K)=0.001577 *22*; α(L)=0.000270 *4*; α(M)=6.45×10^{-5} *9* α(N)=1.762×10^{-5} *25*; α(O)=4.48×10^{-6} *6*; α(P)=8.76×10^{-7} *12*; α(Q)=6.29×10^{-8} *9* α(IPF)=0.0002295 *32* %Iγ=0.055 *4* Mult.: α(K)exp<0.005 (1976Mu03). E1 or E2 from α(K)exp, Δπ=yes from level scheme.
1637.95 *5*	6.5 *8*	1680.80	(2$^+$)	42.835	2$^+$	(M1)	0.01474 *21*	α(K)=0.01146 *16*; α(L)=0.002262 *32*; α(M)=0.000550 *8* α(N)=0.0001508 *21*; α(O)=3.84×10^{-5} *5*; α(P)=7.56×10^{-6} *11*; α(Q)=5.44×10^{-7} *8* α(IPF)=0.000268 *4* %Iγ=0.161 *21* Mult.: α(K)exp=0.014 *2* (1976Mu03).
1659.18 *10*	0.51 *4*	1659.19	(1$^-$)	0	0$^+$	[E1]	2.13×10^{-3} *3*	α(K)=0.001529 *21*; α(L)=0.000262 *4*; α(M)=6.25×10^{-5} *9* α(N)=1.707×10^{-5} *24*; α(O)=4.34×10^{-6} *6*; α(P)=8.49×10^{-7} *12*; α(Q)=6.10×10^{-8} *9* α(IPF)=0.0002507 *35* %Iγ=0.0127 *12*
1661.63 *5*	9.1 *3*	1661.651	(1$^+$)	0	0$^+$	(M1)	0.01421 *20*	α(K)=0.01102 *15*; α(L)=0.002175 *30*; α(M)=0.000529 *7*

From ENSDF

$^{246}_{96}Cm_{150}$-22

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
								α(N)=0.0001450 *20*; α(O)=3.69×10^{-5} *5*; α(P)=7.27×10^{-6} *10*; α(Q)=5.23×10^{-7} *7* α(IPF)=0.000290 *4* %Iγ=0.226 *13* Mult.: α(K)exp=0.010 *1* (1976Mu03).
1669.50 *5*	0.63 *4*	1712.37	(3$^+$)	42.835	2$^+$	[M1,E2]	0.010 *4*	α(K)=0.0075 *34*; α(L)=0.0015 *6*; α(M)=3.7×10^{-4} *15* α(N)=1.0×10^{-4} *4*; α(O)=2.6×10^{-5} *11*; α(P)=5.1×10^{-6} *21*; α(Q)=3.5×10^{-7} *16*; α(IPF)=2.0×10^{-4} *9* %Iγ=0.0156 *12*
1680.69 *18*	0.043 *8*	1680.80	(2$^+$)	0	0$^+$	[E2]	0.00540 *8*	α(K)=0.00412 *6*; α(L)=0.000873 *12*; α(M)=0.0002145 *30* α(N)=5.88×10^{-5} *8*; α(O)=1.489×10^{-5} *21*; α(P)=2.89×10^{-6} *4*; α(Q)=1.852×10^{-7} *26* α(IPF)=0.0001130 *16* %Iγ=0.00107 *21*
[x]1690.15 *16*	0.05 *2*							%Iγ=0.0012 *5*
1714.61 *9*	0.087 *9*	1856.55	3$^+$	141.986	4$^+$			%Iγ=0.00216 *24*
1737.94 *5*	4.5 *3*	1780.799	2$^+$	42.835	2$^+$	(M1)	0.01267 *18*	α(K)=0.00975 *14*; α(L)=0.001924 *27*; α(M)=0.000468 *7* α(N)=0.0001283 *18*; α(O)=3.27×10^{-5} *5*; α(P)=6.43×10^{-6} *9*; α(Q)=4.63×10^{-7} *6*; α(IPF)=0.000360 *5* %Iγ=0.112 *9* Mult.: α(K)exp=0.013 *2* (1976Mu03).
1756.1 *2*	0.057 *9*	1898.07	2$^+$	141.986	4$^+$	[E2]	0.00502 *7*	α(K)=0.00381 *5*; α(L)=0.000797 *11*; α(M)=0.0001955 *27* α(N)=5.36×10^{-5} *8*; α(O)=1.358×10^{-5} *19*; α(P)=2.63×10^{-6} *4*; α(Q)=1.709×10^{-7} *24* α(IPF)=0.0001411 *20* %Iγ=0.00141 *23*
1759.30 *5*	0.86 *7*	1901.31	2$^+$,3	141.986	4$^+$			%Iγ=0.0213 *20*
1764.2 *2*	0.036 *8*	1906.10	2$^+$,3,4$^+$	141.986	4$^+$			%Iγ=8.9×10^{-4} *20*
[x]1769.47 *7*	0.079 *14*							%Iγ=0.0020 *4*
1778.92 *6*	0.90 *5*	1821.75		42.835	2$^+$			%Iγ=0.0223 *16*
1780.5 *2*	0.16 *4*	1780.799	2$^+$	0	0$^+$	[E2]	0.00491 *7*	α(K)=0.00372 *5*; α(L)=0.000775 *11*; α(M)=0.0001900 *27* α(N)=5.21×10^{-5} *7*; α(O)=1.319×10^{-5} *18*; α(P)=2.56×10^{-6} *4*; α(Q)=1.666×10^{-7} *23* α(IPF)=0.0001504 *21* %Iγ=0.0040 *10*
1794.7 *4*	0.015 *5*	1836.73	2$^+$,1$^-$	42.835	2$^+$			%Iγ=3.7×10^{-4} *13*
[x]1801.53 *6*	0.38 *4*							%Iγ=0.0094 *11*
1804.8 *2*	0.037 *9*	1947.07	2$^+$,3,4$^+$	141.986	4$^+$			%Iγ=9.2×10^{-4} *23*
1813.73 *6*	0.110 *10*	1856.55	3$^+$	42.835	2$^+$			%Iγ=0.00273 *28*
1821.70 *12*	0.059 *12*	1821.75		0	0$^+$			%Iγ=0.00146 *31*

From ENSDF

$^{246}_{96}Cm_{150}$-23

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [f]	Comments
1827.39 *5*	0.77 *6*	1870.19	1,2$^+$	42.835	2$^+$			%Iγ=0.0191 *17*
1832.6 *3*	0.019 *9*	1875.52	1,2$^+$	42.835	2$^+$			%Iγ=4.7×10^{-4} *23*
1836.71 *6*	0.19 *2*	1836.73	2$^+$,1$^-$	0	0$^+$			%Iγ=0.0047 *6*
1843.86 *5*	0.36 *3*	1886.756	(1$^+$)	42.835	2$^+$	[M1,E2]	0.0078 *32*	α(K)=0.0059 *24*; α(L)=0.0012 *5*; α(M)=2.9×10^{-4} *11* α(N)=7.9×10^{-5} *30*; α(O)=2.0×10^{-5} *8*; α(P)=3.9×10^{-6} *15*; α(Q)=2.8×10^{-7} *12*; α(IPF)=3.2×10^{-4} *14* %Iγ=0.0089 *9*
1855.34 *12*	0.06 *2*	1898.07	2$^+$	42.835	2$^+$	[M1,E2]	0.0077 *31*	α(K)=0.0058 *24*; α(L)=0.0012 *4*; α(M)=2.8×10^{-4} *11* α(N)=7.8×10^{-5} *30*; α(O)=2.0×10^{-5} *8*; α(P)=3.9×10^{-6} *15*; α(Q)=2.7×10^{-7} *12*; α(IPF)=3.3×10^{-4} *15* %Iγ=0.0015 *5*
1858.7 *2*	0.031 *5*	1901.31	2$^+$,3	42.835	2$^+$			%Iγ=7.7×10^{-4} *13*
1863.19 *18*	0.038 *6*	1906.10	2$^+$,3,4$^+$	42.835	2$^+$			%Iγ=9.4×10^{-4} *16*
1866.48 *6*	0.20 *3*	1909.31	2$^+$,1	42.835	2$^+$			%Iγ=0.0050 *8*
1869.81 *15*	0.040 *8*	1870.19	1,2$^+$	0	0$^+$			%Iγ=9.9×10^{-4} *20*
1875.56 *12*	0.034 *8*	1875.52	1,2$^+$	0	0$^+$			%Iγ=8.4×10^{-4} *20*
1881.70 *5*	0.30 *3*	1924.55	1,2$^+$	42.835	2$^+$			%Iγ=0.0074 *8*
1886.80 *5*	0.50 *3*	1886.756	(1$^+$)	0	0$^+$	[M1]	0.01034 *14*	α(K)=0.00779 *11*; α(L)=0.001536 *22*; α(M)=0.000373 *5* α(N)=0.0001024 *14*; α(O)=2.61×10^{-5} *4*; α(P)=5.14×10^{-6} *7*; α(Q)=3.70×10^{-7} *5*; α(IPF)=0.000502 *7* %Iγ=0.0124 *9*
1897.8 *2*	0.018 *4*	1898.07	2$^+$	0	0$^+$	[E2]	0.00443 *6*	α(K)=0.00333 *5*; α(L)=0.000680 *10*; α(M)=0.0001663 *23* α(N)=4.56×10^{-5} *6*; α(O)=1.156×10^{-5} *16*; α(P)=2.247×10^{-6} *31*; α(Q)=1.482×10^{-7} *21* α(IPF)=0.0001977 *28* %Iγ=4.5×10^{-4} *10*
1904.26 *10*	0.049 *6*	1947.07	2$^+$,3,4$^+$	42.835	2$^+$			%Iγ=0.00122 *16*
1909.27 *9*	0.057 *6*	1909.31	2$^+$,1	0	0$^+$			%Iγ=0.00141 *16*
1924.56 *5*	0.33 *3*	1924.55	1,2$^+$	0	0$^+$			%Iγ=0.0082 *8*
1940.43 *18*	0.022 *4*	1983.33	(1$^-$,2$^+$)	42.835	2$^+$			%Iγ=5.5×10^{-4} *10*
[x]1944.79 *15*	0.014 *7*							%Iγ=3.5×10^{-4} *18*
[x]1953.6 *5*	0.004 *2*							%Iγ=1.0×10^{-4} *5*
[x]1974.2 *3*	0.012 *4*							%Iγ=3.0×10^{-4} *10*
1983.2 *3*	0.012 *4*	1983.33	(1$^-$,2$^+$)	0	0$^+$			%Iγ=3.0×10^{-4} *10*
1989.63 *8*	0.042 *8*	2032.49	1,2$^+$	42.835	2$^+$			%Iγ=0.00104 *21*
[x]2000.3 *5*	0.005 *3*							%Iγ=1.2×10^{-4} *8*
2029.39 *8*	0.047 *5*	2171.41	2$^+$,3	141.986	4$^+$			%Iγ=0.00117 *14*
2032.49 *11*	0.041 *15*	2032.49	1,2$^+$	0	0$^+$			%Iγ=0.0010 *4*
[x]2058.18 *6*	0.058 *4*							%Iγ=0.00144 *12*

From ENSDF

$^{246}_{96}Cm_{150}$-24

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

$\gamma(^{246}Cm)$ (continued)

E_γ [†]	I_γ [†g]	E_i(level)	J_i^π	E_f	J_f^π	Comments
[x]2065.0 *2*	0.017 *4*					%Iγ=4.2×10^{-4} *10*
[x]2068.69 *8*	0.061 *4*					%Iγ=0.00151 *12*
[x]2083.1 *2*	0.013 *3*					%Iγ=3.2×10^{-4} *8*
[x]2091.4 *3*	0.008 *2*					%Iγ=2.0×10^{-4} *5*
2103.18 *7*	0.063 *6*	2146.04	1,2$^+$	42.835	2$^+$	%Iγ=0.00156 *17*
[x]2123.66 *7*	0.105 *7*					%Iγ=0.00260 *21*
2128.57 *9*	0.052 *5*	2171.41	2$^+$,3	42.835	2$^+$	%Iγ=0.00129 *14*
[x]2140.2 *3*	0.009 *2*					%Iγ=2.2×10^{-4} *5*
2146.05 *7*	0.123 *7*	2146.04	1,2$^+$	0	0$^+$	%Iγ=0.00305 *22*
[x]2149.5 *2*	0.019 *3*					%Iγ=4.7×10^{-4} *8*
[x]2156.05 *17*	0.014 *3*					%Iγ=3.5×10^{-4} *8*
[x]2168.33 *7*	0.044 *4*					%Iγ=0.00109 *11*
[x]2184.79 *15*	0.011 *2*					%Iγ=2.7×10^{-4} *5*
[x]2203.4 *5*	0.003 *1*					%Iγ=7.4×10^{-5} *25*
[x]2234.4 *3*	0.006 *2*					%Iγ=1.5×10^{-4} *5*
[x]2259.2 *4*	0.004 *2*					%Iγ=1.0×10^{-4} *5*
[x]2287.0 *6*	0.002 *1*					%Iγ=5.0×10^{-5} *25*

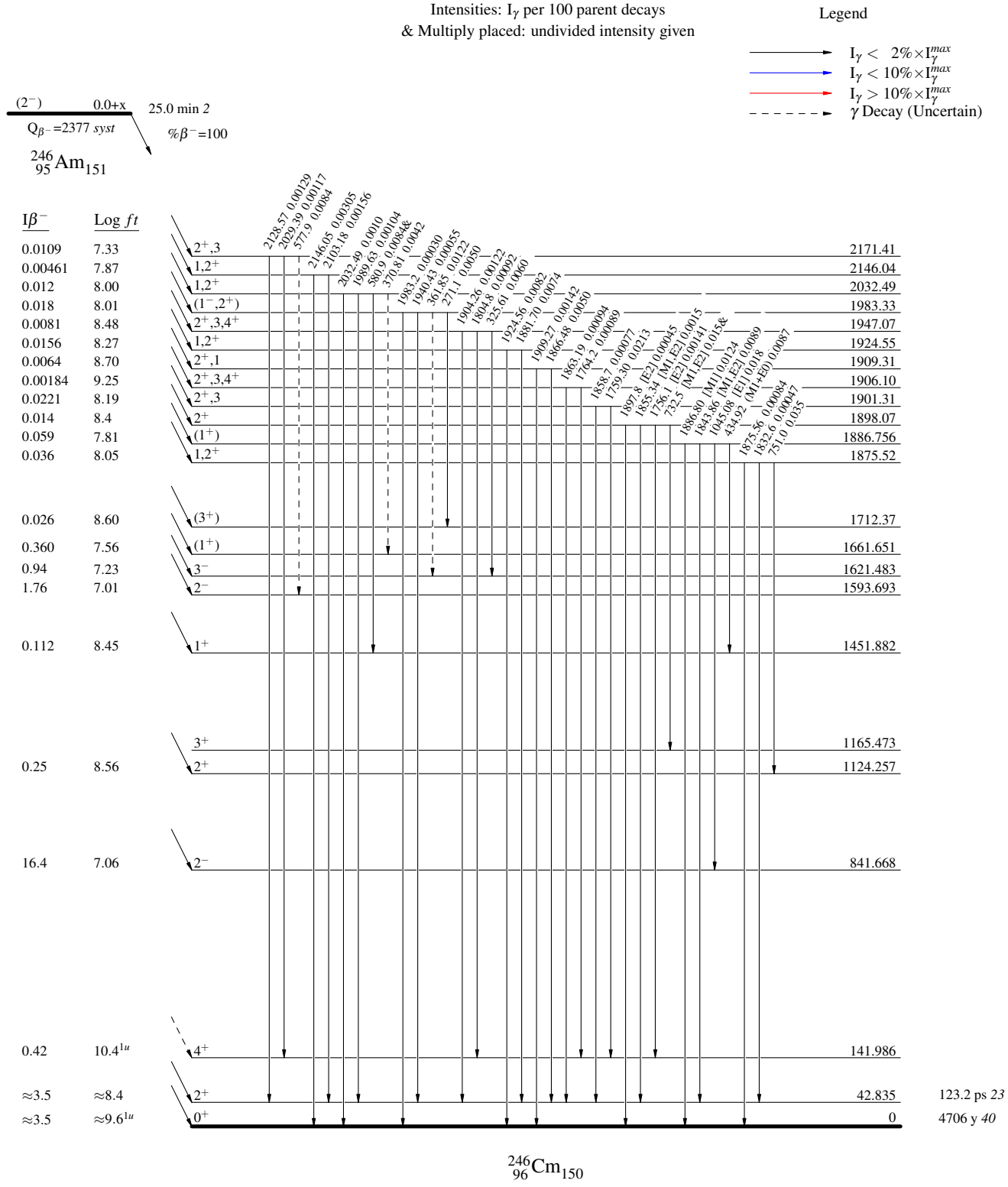
† From 1976Mu03.
‡ I(γ+ce) deduced from coincidence measurements. Eγ from E(level) difference.
# γ-ray placed by the evaluator on basis of good energy fit.
@ From conversion electron data in 1976Mu03, 1966Or01, except as noted. These multipolarities are provided in the Adopted Gammas. 1976Mu03 normalized the α(K)exp (E1) for 1036, 1062 and 1079 γ rays to the weighted average of the three theoretical values by Hager Seltzer. The evaluator deduced the re-normalization value using BrICC and considered the correction factor to be negligible (0.997) for the conversion electron data in 1976Mu03. 1966Or01 normalized the 800 γ ray to α(K)exp(E1) =0.00524. The evaluator deduced the re-normalization factor using BrICC and considered it to be negligible (0.998) for the conversion electron data for Eγ= 798.80*4* in 1966Or01.
& From Adopted Gammas.
[a] From Adopted Gammas. α(K)exp used for normalization of γ- and ce-spectra. See general comments for multi.
[b] α(K)exp=0.009 *2* for the 1123+1124 peak (1976Mu03); α(K)exp=0.007 *2* (1966Or01). α(K)exp indicates that both γ rays are predominantly E2.
[c] α(K)exp=0.050 *10* for the 505.61+507.10 multiplet (1976Mu03).
[d] α(K)exp=0.0045 *14* for the 1529.00+1530.7 doublet (1976Mu03).
[e] α(K)exp=0.17 *6* for the 554.4+554.68 doublet (1976Mu03).
[f] Additional information 1.
[g] For absolute intensity per 100 decays, multiply by 0.0248 *11*.
[h] Multiply placed with undivided intensity.
[i] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

From ENSDF
$^{246}_{96}Cm_{150}$-25

^{246}Am β^- decay (25.0 min) 1976Mu03

Decay Scheme

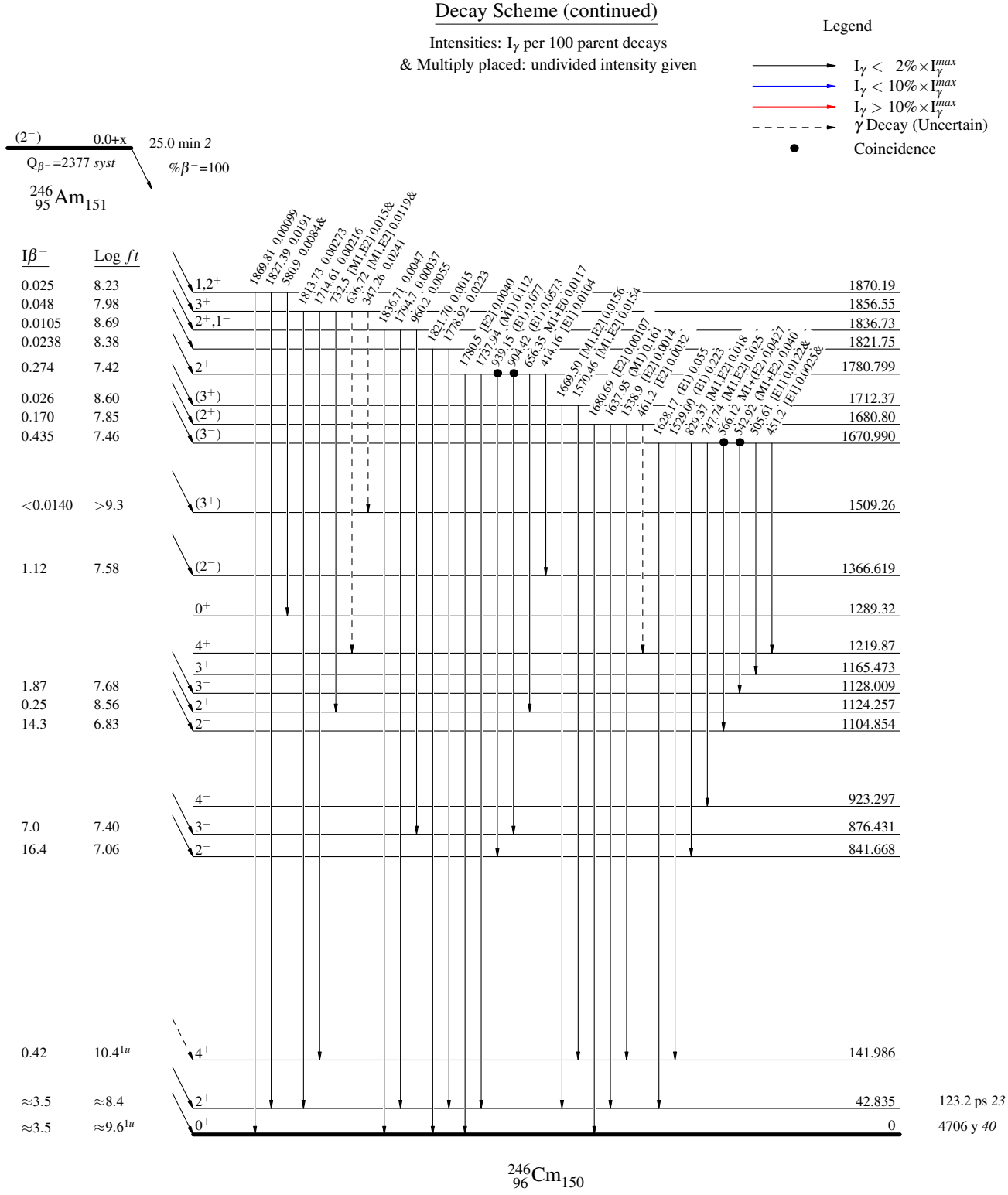
Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given



^{246}Am β^- decay (25.0 min) 1976Mu03

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given

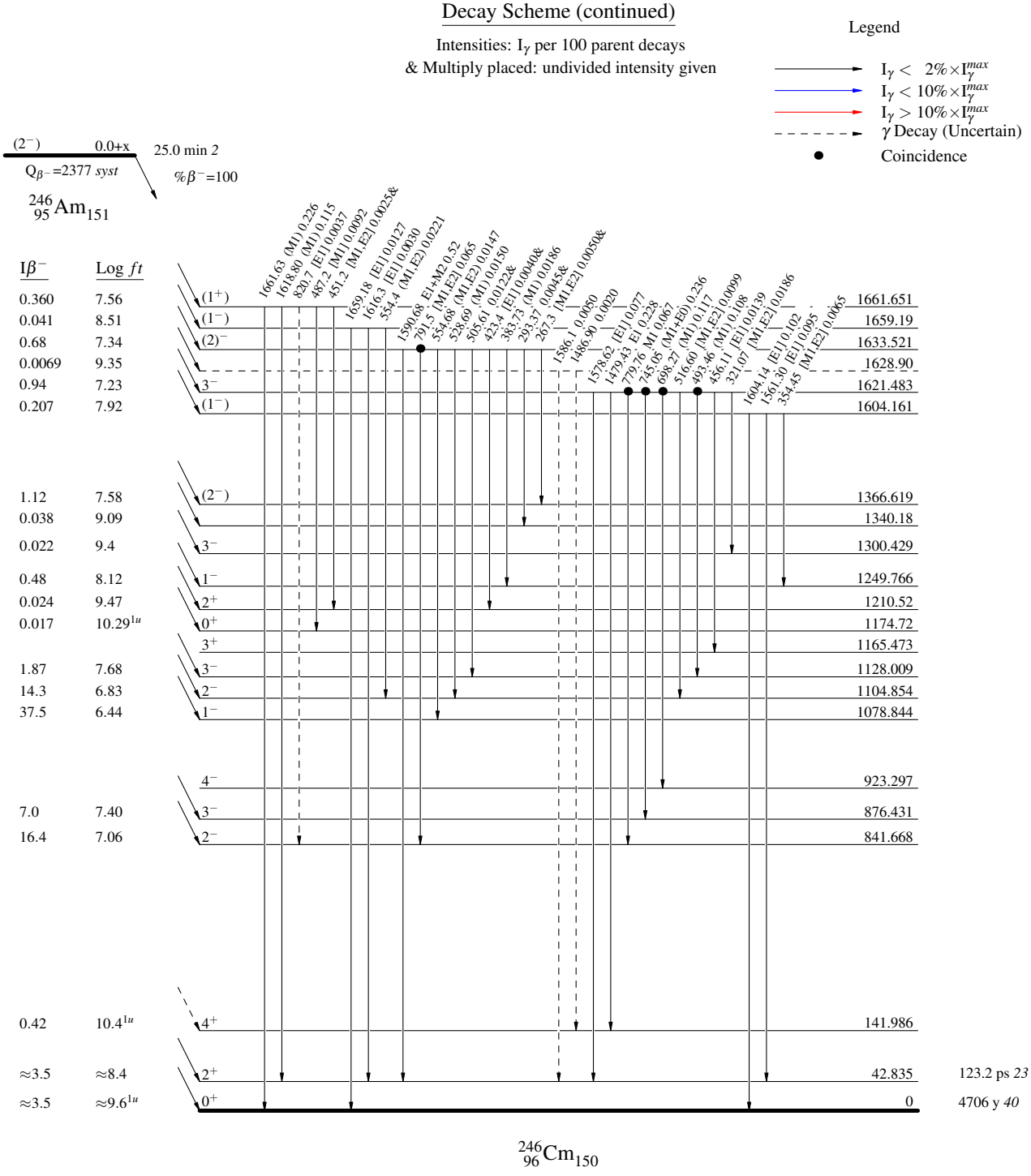


$^{246}_{96}Cm_{150}$

^{246}Am β^- decay (25.0 min) 1976Mu03

Decay Scheme (continued)

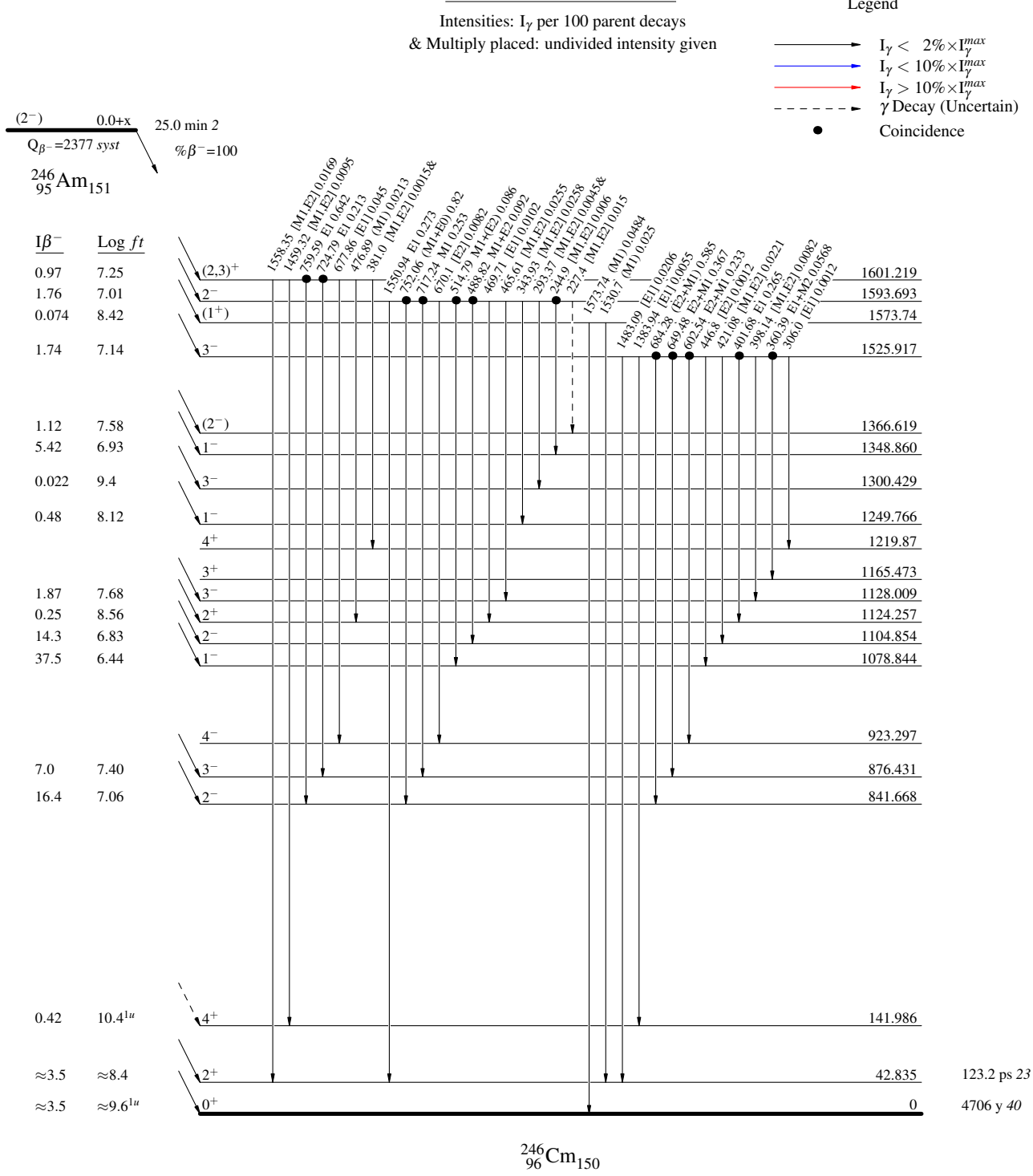
Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given



^{246}Am β^- decay (25.0 min) 1976Mu03

Decay Scheme (continued)

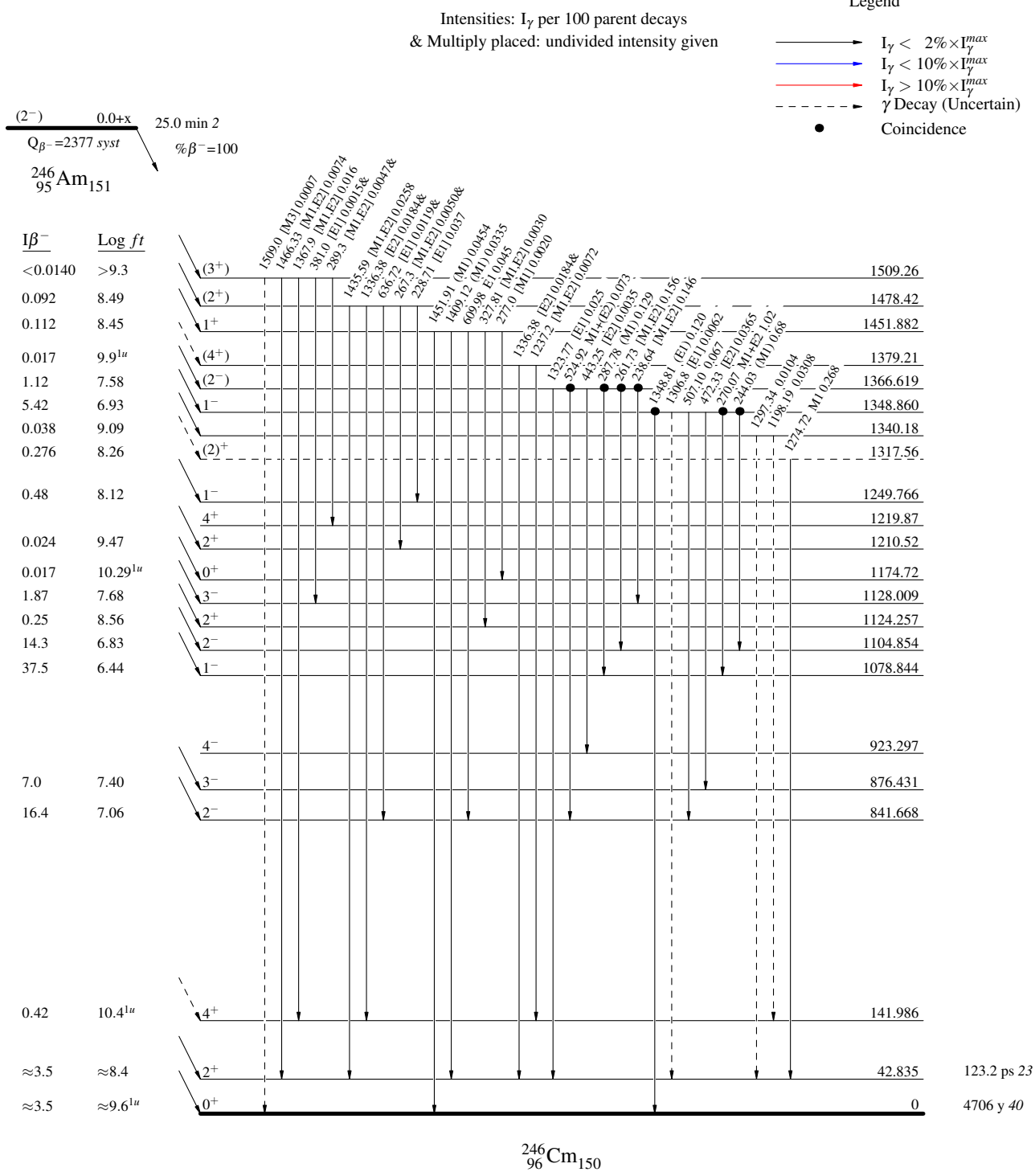
Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given



^{246}Am β^- decay (25.0 min) 1976Mu03

Decay Scheme (continued)

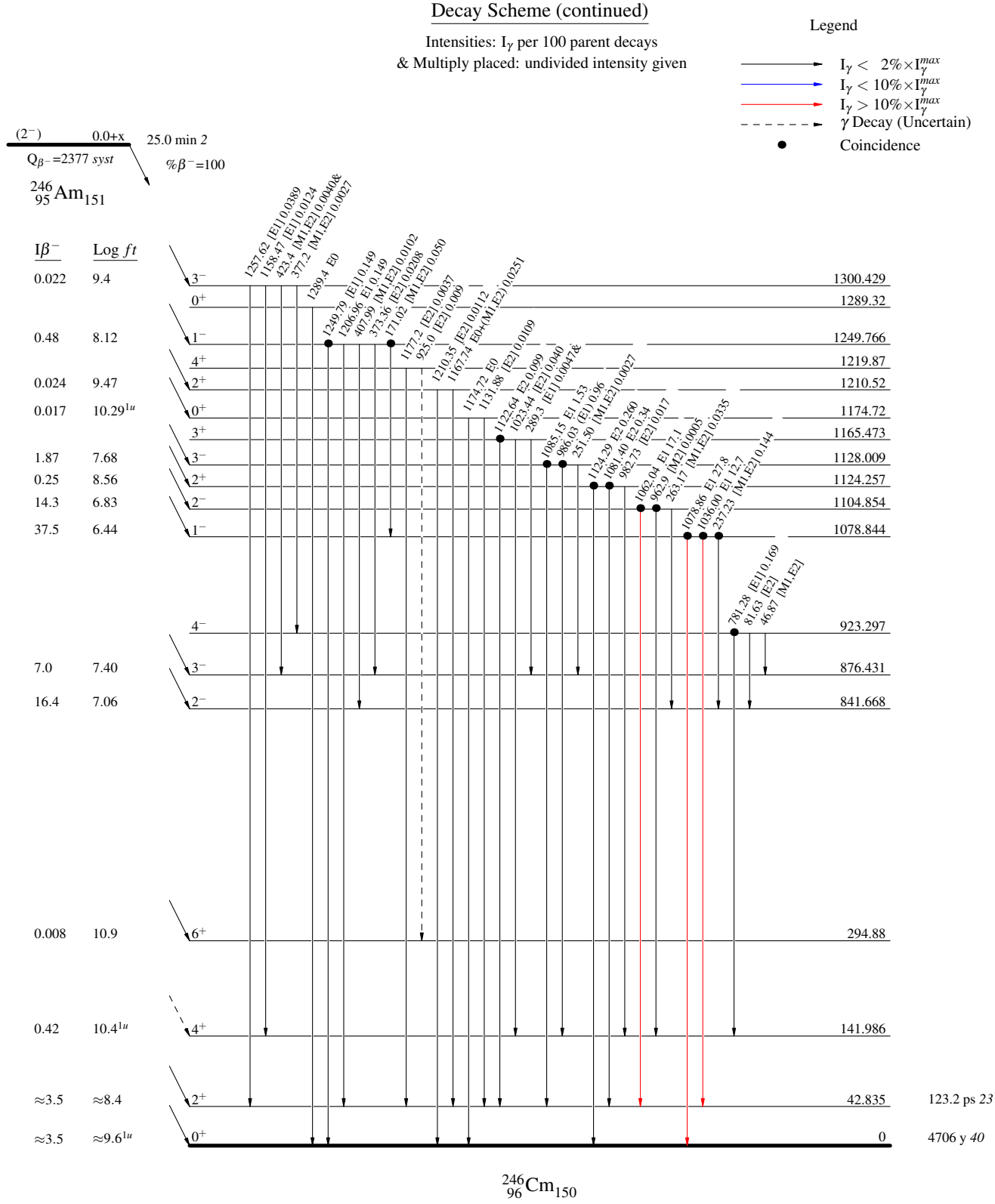
Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given



^{246}Am β^- decay (25.0 min) 1976Mu03

Decay Scheme (continued)

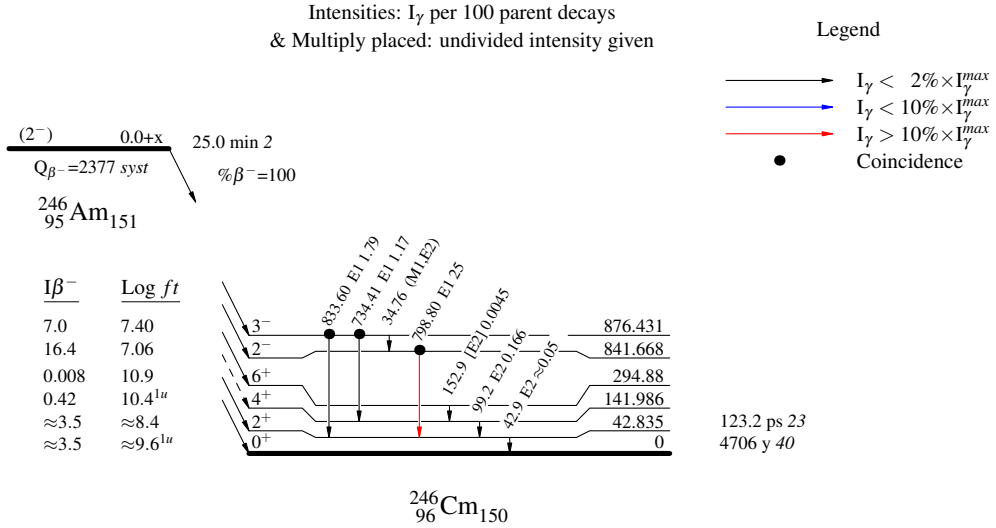
Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given



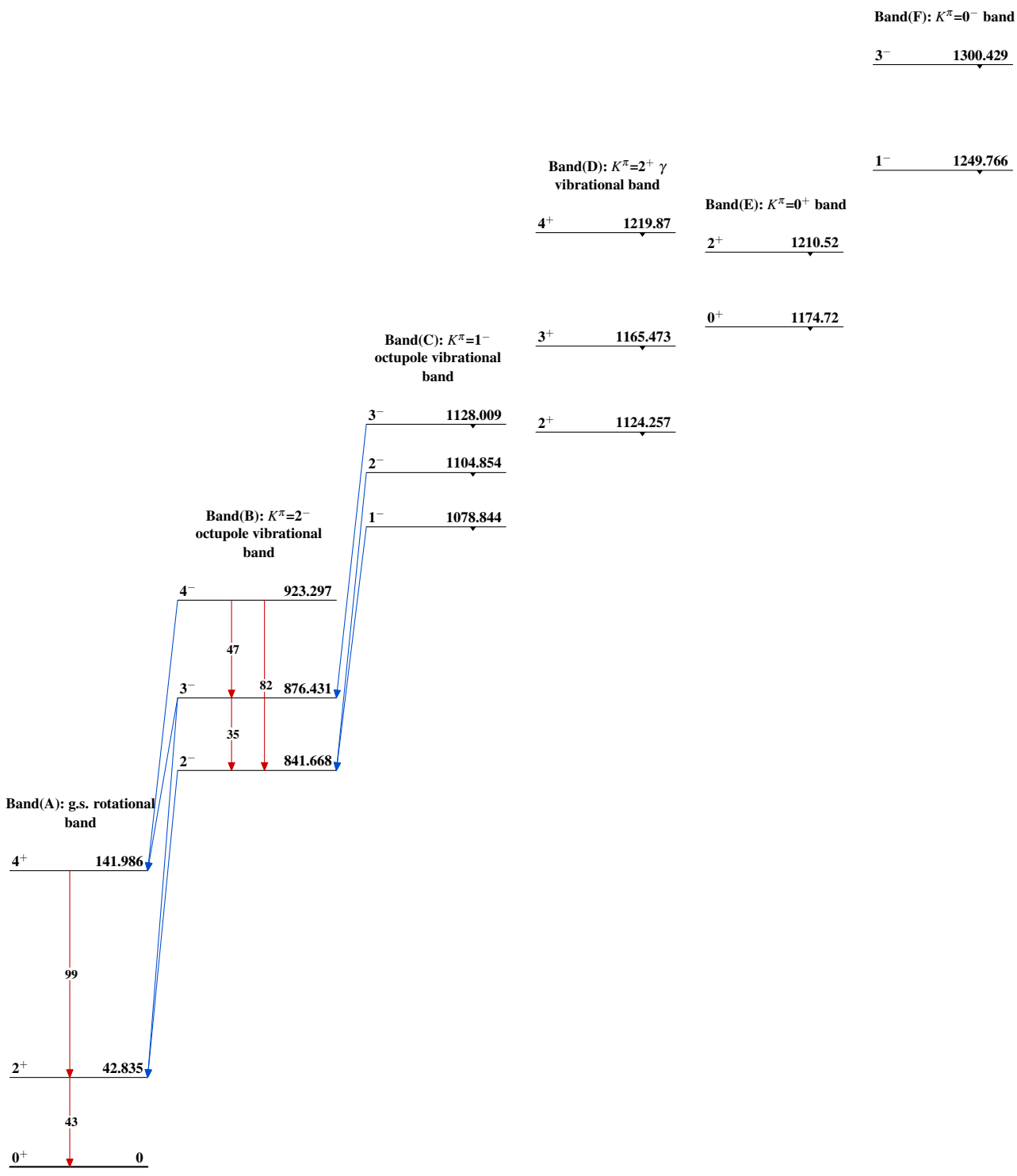
^{246}Am β^- decay (25.0 min) 1976Mu03

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays
& Multiply placed: undivided intensity given

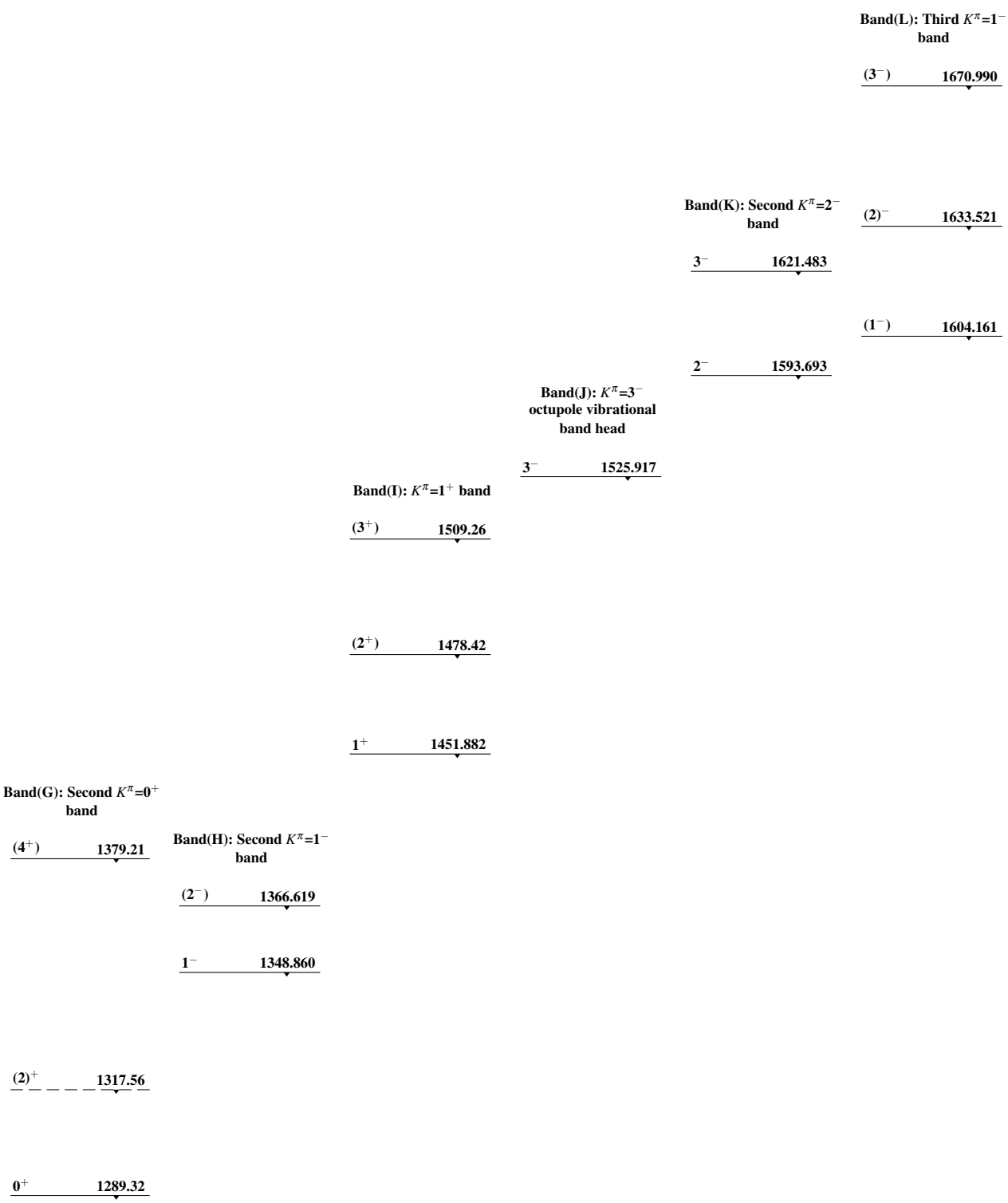


^{246}Am β^- decay (25.0 min) 1976Mu03



$^{246}_{96}Cm_{150}$

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)



$^{246}_{96}Cm_{150}$

^{246}Am β^- decay (25.0 min) 1976Mu03 (continued)

Band(M): Second $K^\pi=1^+$ band

(3^+) 1712.37

(2^+) 1680.80

(1^+) 1661.651

$^{246}_{96}Cm_{150}$