Adopted Levels, Gammas

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

Q(β^-)=−1350 *60*; S(n)=6458.9 *12*; S(p)=6572.5 *20*; Q(α)=5475.1 *9* 2021Wa16
S(2n)=11977.6 *11*, S(2p)=11767.1 *27* (2021Wa16).

Average neutron emitted per fission:
1970Th06, 1972Pr19, 1973Da34, 1973Go20, 1973Go46.
Theoretical structure calculations:
Q(α), $T_{1/2}(\alpha)$ and $T_{1/2}$ s.f.
2022Wa06,2022Xu04,2021Ch44,2021El09,2021He09,2021Ko21,2021Pa24,
2021Po06,2020Ca10,2019So15,2019Sr04,2018Po05,2017Vi02,2016Sa53,
2016Su09,2015Ba24,2015Ba24,2014Lu01,2013Ra05,2013Se17,2012Ja08,
2010Sa09,2010Ko36,1992Bh03,1989Ho24 1983Bo15,1993Bu09,1992So06.
Fission barrier heights:
2020Ja01,2018Ch21,2014Ro09,2013Gi06,2010Ab23,1991Pa11,1983Bo15,
1982Du16,1982Eg01.
Deformation parameter:
2021Im01,2010Ab23, 1991Pa11, 1982Du16, 1982Eg01,1981Kr21.
Excited levels, yrast states:
2021Ef02,2016Li37,2002Pr01,1984Eg01.
K-isomeric state:
2022Mi06,2021Yo09.
Potential energy surfaces for fission:
2015Ku28,1976Iw02.
Compilation of long lived isomer:
2011He12.
Heavy fragment decay:
1989Si13.
Rotational bands:
1993Gu08, 1991Ah01, 1991Pi05, 1988Ab07, 1988Bh04, 1985Si13, 1985Si23, 1983Pe12, 1981Kr21.

^{246}Cm Levels

Cross Reference (XREF) Flags

A	^{246}Am β^- decay (39 min)	E	^{246}Cm(d,d′)
B	^{246}Am β^- decay (25.0 min)	F	^{248}Cm(p,t)
C	^{246}Bk ε decay	G	^{248}Cm(^{209}Bi,^{211}Biγ)
D	^{250}Cf α decay	H	Coulomb excitation

E(level)[†]	J$^\pi$	$T_{1/2}$	XREF	Comments
0.0[‡]	0$^+$	4706 y *40*	ABCDEFGH	%SF=0.02615 *7*; %α=99.97385 *7* $T_{1/2}$: From ingrowth activity method (2007Ko01). The evaluator is adopting the value from 2007Ko01 as the measurement uses a high-purity source and the absolute efficiencies are not needed as the half-life is determined from the activity ratio of the daughter ^{246}Cm to the parent ^{250}Cf. The $T_{1/2}(^{250}Cf)$=13.08 y *9* used by 2007Ko01 is the current value available in the ENSDF database (2001Ak11) Earlier measurements as specified in "Others" either used the absolute or specific activity methods with exception to 1955Br02 and 1956Bu91. The latter two used the

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Adopted Levels, Gammas (continued)

^{246}Cm Levels (continued)

E(level)†	Jπ	T1/2	XREF	Comments
				ingrowth method but had very discrepant results. Others: 4852 y *76* (1977Po20), 4820 y *20* (1971Ma32) 4654 y *40* (1971Mc19), 4711 y *22* (1969Me01), 5480 y *170* (1961Ca01), 6620 y *320* (1956Bu91), 2300 y *460* (1955Br02), 4000 y *600* (1954Fr19). %SF,%α: From α/SF= 3823 *10*: weighted average of α/SF=3822 *10* (1969Me01), 3833 *32* (1971Ma32). Spontaneous fission rate=9000 *700* fission /mole (1981Gi02).
42.851‡ *5*	2+	123.2 ps *23*	ABCDEFGH	Jπ: E2 42.852γ to 0+ g.s.; band member. T1/2: From B(E2)=14.94 *19* measured in Coulomb excitation and α=1064 *15*.
142.009‡ *20*	4+		ABCDEFG	Jπ: E2 99.2γ to 2+ 43-keV level; band member.
295.04‡ *17*	6+		AB DE G	Jπ: 153.0γ to 4+ 142-keV level; band member.
499.8‡ *4*	8+		A G	Jπ: 205γ to 6+ 295-keV level; band member.
752.6‡ *11*	10+		G	Jπ: 252.8γ to 8+ 499-keV level; band member.
841.680# *17*	2−		ABC	Jπ: E1 798.79γ to 2+ 43-keV level; (M1,E2) 34.8γ from 3- 876-keV level; no gamma from 5- 980-keV level.
876.444# *18*	3−		ABC E	Jπ: E1 734.40γ to 4+ 142-keV level; band member.
923.31# *3*	4−		AB G	Jπ: 46.87γ to 3- 876-keV level; band member.
980.31# *22*	5−		A E G	Jπ: natural parity yields negative parity for J=5 (observed in (d,d′)); 685.1γ to 6+ 295-keV level; 838.5γ to 4+ 143-keV level; band member.
1049.4‡ *15*	12+		G	Jπ: 296.8γ 10+ 753-keV level; band member.
1051.1# *3*	6−		A G	Jπ: E2 127.4γ to 4- 923-keV level; band member.
1059 *3*			E	
1078.853@ *18*	1−		BC E	Jπ: E1 1078.85γ to 0+ g.s.
1104.865@ *19*	2−		BC	Jπ: E1 1062.04γ to 2+ 43-keV level; band member.
1124.261& *22*	2+		BC e H	Jπ: E2 1124.29γ to 0+ g.s.
1128.025@ *21*	3−		BC e	Jπ: E1 1085.15γ 2+ 43-keV level; to band member.
1128.8# *3*	7−		A G	Jπ: 148.5γ to 5- 980-keV level; 628.8γ to 8+ 499-keV level; band member.
1165.49& *3*	3+		BC	Jπ: E2 1122.64γ to 2+ 43-keV level; band member.
1174.74a *7*	0+		B EF	Jπ: E0 to 0+ g.s.
1178.9 *4*	8−	1.12 s *24*	A G	%IT=100 Jπ: E2 127.4γ to 6- 1051-keV level; 679.2γ to 8+ 499-keV level; calculated from Woods-Saxon single-particle energies (2008Ro21) and Gogny interaction (2006De23); systematics of N=150 isotones (^{244}Pu, ^{248}Cf, ^{250}No). Configuration=7/2[624]⊗9/2[734] (2019Sh34). Identified as $K^{\pi}=8^{-}$ isomer (1973Mu03). T1/2: from summed double coincidence intensities of 679γ, 153γ, 205γ(t) in (^{209}Bi,^{211}Biγ) (2019Sh34).
1210.53a *5*	2+		B F	Jπ: E0+(M1,E2) to 2+; L=(2) in (p,t); band member.
1219.97& *11*	4+		B E	Jπ: 925.0γ to 6+ 295-keV level; 1177.2γ to 2+ 43-keV level; band member.
1249.777b *19*	1−		B E	Jπ: E1 1206.96γ to 2+ 43-keV level; natural parity yields negative parity for J=1 (observed in (d,d′)).
1289.3c *3*	0+		B	Jπ: E0 to g.s.
1300.45b *4*	3−		B E	Jπ: 1257.62γ to 2+ 43-keV level; 1158.47γ to 4+ 142-keV level; natural parity yields negative parity for J=3 (observed in (d,d′)); band member.
1317.57?c *4*	(2)+		B	Jπ: M1 1274.72γ to 2+ 43-keV level; band member.
1340.16 *16*			B e	
1348.863d *20*	1−		B e	Jπ: M1+E2 270.07γ to 1- 1078-keV level; (E1) 1348.81γ to 0+ g.s.
1366.633d *21*	(2−)		B	Jπ: M1(+E2) 524.92γ to 2- 842-keV; (M1) 287.78γ to 1- 1078-keV; band member.

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Adopted Levels, Gammas (continued)

^{246}Cm Levels (continued)

E(level)[†]	Jπ	XREF	Comments
1379.23[c] 7	(4+)	B	Jπ: 1237.2γ to 4+ 142-keV level; 1336.38γ to 43-keV level; band member.
1386.4[‡] 18	14+	G	Jπ: 337.0γ to 12+ 1049-keV level; band member.
1397 3	5−	E	
1451.89[e] 4	1+	B	Jπ: (M1) 1451.91γ to 0+ g.s.; E1 609.98γ to 2- 842-keV level.
1471 3		E	
1478.44[e] 4	(2+)	B	Jπ: 228.71γ to 1- 1249-keV level; 1336.38γ to 142-keV level; band member.
1509.24[e] 6	(3+)	B	Jπ: 1466.53γ to 2+ 43-keV level; band member.
1525.928[f] 21	3−	B E	Jπ: E1 401.68γ to 2+ 1124-keV level; 1383.94γ to 4+ 142-keV level; natural parity yields negative parity for J=3 (observed in (d,d′)).
1573.74 5	(1+)	B	Jπ: (M1) 1573.74γ to 0+ g.s.
1593.702[g] 20	2−	B	Jπ: (M1+E0) transition to 2− 842−keV level; E1 1550.94γ to 2+ 43-keV level.
1601.232 25	(2,3)+	B	Jπ: E1 759.59γ to 2- 842-keV level; E1 724.79γ to 3- 676-keV level.
1604.17[h] 3	(1−)	B E	Jπ: 1604.14γ to 0+ g.s.; γ decay pattern similar to the first and second $K^{\pi}=1^{-}$ band.
1621.500[g] 21	3−	B e	Jπ: E1 1479.43γ to 4+ 142-keV level; 779.76γ to 2- 842-keV level; band member.
1628.92? 7		B e	
1633.53[h] 3	(2)−	B	Jπ: E1+M2 1590.68γ to 2+ 43-keV level; band member.
1652 3		E	
1659.19 9	(1−)	B	Jπ: (M1,E2) 554.4γ to 2- 1105-keV level; 1659.18γ to 0+ g.s.
1661.65[i] 3	(1+)	B	Jπ: (M1) 1661.63γ to 0+ g.s.
1671.01[h] 3	(3−)	B E	Jπ: M1(+E2) 566.12γ to 2- 1105-keV level; band member.
1680.81[i] 5	(2+)	B	Jπ: 1680.69γ to 0+ g.s.; (M1) 1637.95γ to 2+ 43-keV level; band member.
1712.39[i] 4	(3+)	B	Jπ: 1669.50γ to 2+ 43-keV level; band member.
1759.5[‡] 21	16+	G	Jπ: 373.1γ to 14+ 1386.4-keV level; band member.
1780.81 3	2+	B E	Jπ: 1780.5γ to 0+ g.s.; M1+E0 transition to 2+ 1125-keV level.
1821.76 6		B	
1836.73 6	2+,1−	B E	Jπ: 960.2γ to 3- 876-keV level; 1794.7γ to 2+ 43-keV level; 1836.71γ to 0+ g.s.
1856.61 5	3+	B	Jπ: 1813.73γ to 2+ 43-keV level; 1714.61γ to 4+ 142-keV level, level not seen in (d,d′) suggests a level with unnatural parity.
1870.21 5	1,2+	B	Jπ: 1869.81γ to 0+ g.s.; 1827.39γ to 2+ 43-keV level.
1875.52 11	1,2+	B	Jπ: 1875.56γ to 0+ g.s.; 751.0γ to 2+ 1124-keV level.
1886.77 3	(1+)	B	Jπ: (M1+E0) transition to 1+ 1451-keV level; 1886.80γ to 0+ g.s.
1898.08 9	2+	B	Jπ: 1897.8γ to 0+ g.s.; 1756.1γ to 4+ 142-keV level.
1901.33 6	2+,3	B	Jπ: 1759.30γ to 4+ 143-keV level; 1858.7 g to 2+ 43-keV level; log*ft*= 8.28 from $J^{\pi}(^{246}Am)=2^{(-)}$ rules out 4+.
1906.12 14	2+,3,4+	B e	Jπ: 1764.2γ to 4+ 143-keV level; 1863.19γ to 2+ 43-keV level.
1909.32 5	2+,1	B e	Jπ: 1866.48γ to 2+ 43-keV level; 1909.27γ to 0+ g.s.
1924.56 4	1,2+	B	Jπ: 1881.70γ to 2+ 43-keV level; 1924.56γ to 0+ g.s.
1947.09 6	2+,3,4+	B	Jπ: 1804.8γ to 4+ 142-keV level; 1904.26γ to 2+ 43-keV level.
1965 4		E	
1983.35 13	(1−,2+)	B	Jπ: 361.85γ to 3- 1621-keV level; 1983.2γ to 0+ g.s.
2032.51 7	1,2+	B	Jπ: 1989.63γ to 2+ 43-keV level; 2032.49γ to 0+ g.s.
2146.05 5	1,2+	B	Jπ: 2103.18γ to 2+ 43-keV level; 2146.05γ to 0+ g.s.
2164.4[‡] 23	18+	G	Jπ: 404.9γ to 16+ 1759-keV level; band member.
2171.42 6	2+,3	B	Jπ: 577.9γ to 2- 1594-keV level; 2029.39γ to 4+ 142-keV level; 2128.57γ to 2+ 43-keV level.
2597.4[‡] 25	20+	G	Jπ: 433.0γ to 18+ 2164-keV level; band member.
3055[‡] 3	22+	G	Jπ: 457.9γ to 20+ 2597-keV level; band member.
3534[‡] 3	24+	G	Jπ: 479.1γ to 22+ 3055-keV level; band member.
4033[‡] 3	26+	G	Jπ: 498.1γ to 24+ 3534-keV level; band member.

[†] From least-squares fit to Eγ data by the evaluator. For gammas without uncertainties, ΔEγ=1.0 has been assumed.

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Adopted Levels, Gammas (continued)

^{246}Cm Levels (continued)

‡ Band(A): g.s. rotational band.
# Band(B): $K^\pi=2^-$ octupole vibrational band.
@ Band(C): $K^\pi=1^-$ octupole vibrational band.
& Band(D): $K^\pi=2^+$ γ vibrational band.
[a] Band(E): $K^\pi=0^+$ band.
[b] Band(F): $K^\pi=0^-$ band.
[c] Band(G): second $K^\pi=0^+$ band.
[d] Band(H): second $K^\pi=1^-$ band.
[e] Band(I): $K^\pi=1^+$ band.
[f] Band(J): $K^\pi=3^-$ octupole vibrational band head.
[g] Band(K): second $K^\pi=2^-$ band.
[h] Band(L): third $K^\pi=1^-$ band.
[i] Band(M): second $K^\pi=1^+$ band.

Adopted Levels, Gammas (continued)

γ(^{246}Cm)

Additional information 1.

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	α[f]	Comments
42.851	2+	42.852 *5*	100	0.0	0+	E2[e]	1064 *15*	α(L)=770 *11*; α(M)=216.8 *30* α(N)=60.3 *8*; α(O)=14.56 *20*; α(P)=2.379 *33*; α(Q)=0.00584 *8* B(E2)(W.u.)=326 *8* E_γ: from ^{250}Cf α decay. Other: 42.9 *2* from ^{246}Am β$^-$ decay (25.0 min).
142.009	4+	99.2 *1*	100	42.851	2+	E2[c]	19.43 *29*	α(L)=14.05 *21*; α(M)=3.97 *6* α(N)=1.105 *16*; α(O)=0.268 *4*; α(P)=0.0444 *7*; α(Q)=0.0001817 *26* E_γ: from ^{246}Bk ε decay. Others: 99.2 *2* from ^{246}Am β$^-$ decay (39 min) and 99.2 *2* from ^{246}Am β$^-$ decay (25.0 min).
295.04	6+	153.0 *2*	100	142.009	4+	[E2]	2.87 *4*	α(K)=0.1739 *24*; α(L)=1.951 *30*; α(M)=0.550 *8* α(N)=0.1530 *23*; α(O)=0.0371 *6*; α(P)=0.00625 *9*; α(Q)=3.99×10^{-5} *6* E_γ: weighted average of 153.5 *5* from ^{246}Am β$^-$ decay (39 min) and 152.9 *2* from ^{246}Am β$^-$ decay (25.0 min).
499.8	8+	205[‡] *1*	100[#]	295.04	6+	[E2]	0.896 *21*	α(K)=0.1414 *22*; α(L)=0.547 *14*; α(M)=0.153 *4* α(N)=0.0426 *11*; α(O)=0.01037 *26*; α(P)=0.00177 *4*; α(Q)=1.657×10^{-5} *33*
752.6	10+	252.8[&]		499.8	8+			
841.680	2−	798.79 *4*	100	42.851	2+	E1[d]	0.00648 *9*	α(K)=0.00523 *7*; α(L)=0.000941 *13*; α(M)=0.0002260 *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* E_γ: weighted average of 798.80 *4* from ^{246}Am β$^-$ decay (25.0 min) and 798.7 *1* from ^{246}Bk ε decay. Other: 798.8 *3* from ^{246}Am β$^-$ decay (39 min).
876.444	3−	34.8[@] *1*	0.05 *4*	841.680	2−	(M1,E2)[c]	1.5×10^3 *14*	α(L)=1.1×10^3 *10*; α(M)=3.1×10^2 *28* α(N)=9.E1 8; α(O)=21 *19*; α(P)=3.5 *31*; α(Q)=0.021 *7*
		734.40 *4*	64.7 *20*	142.009	4+	E1[c]	0.00752 *11*	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* E_γ: weighted average of 734.41 *4* from ^{246}Am β$^-$ decay (25.0 min) and 734.3 *1* from ^{246}Bk ε decay. Other: 734.4 *3* from ^{246}Am β$^-$ decay (39 min). I_γ: weighted average of 65.4 *20* from ^{246}Am β$^-$ decay (25.0 min) and 62 *4* from ^{246}Bk ε decay.
		833.59 *4*	100.0 *28*	42.851	2+	E1[d]	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* E_γ: weighted average of 833.60 *4* from ^{246}Am β$^-$ decay (25.0 min) and

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

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	α[f]	Comments
								833.5 *1* from ^{246}Bk ε decay. Other: 833.6 *3* from ^{246}Am β$^-$ decay (39 min).
								I_γ: Other: 100 *6* from ^{246}Bk ε decay.
923.31	4$^-$	46.87		876.444	3$^-$			
		81.63		841.680	2$^-$			
		781.28 *6*	100 *7*	142.009	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* E_γ: Other: 781.2 *3* from ^{246}Am β$^-$ decay (39 min).
980.31	5$^-$	685.1[‡] *3*	≈100[#]	295.04	6$^+$	[E1]	0.00853 *12*	α(K)=0.00686 *10*; α(L)=0.001254 *18*; α(M)=0.000302 *4* α(N)=8.24×10^{-5} *12*; α(O)=2.081×10^{-5} *29*; α(P)=4.00×10^{-6} *6*; α(Q)=2.62×10^{-7} *4*
		838.5[‡] *3*	≈100[#]	142.009	4$^+$	[E1]	0.00595 *8*	α(K)=0.00480 *7*; α(L)=0.000861 *12*; α(M)=0.0002066 *29* α(N)=5.64×10^{-5} *8*; α(O)=1.427×10^{-5} *20*; α(P)=2.76×10^{-6} *4*; α(Q)=1.858×10^{-7} *26*
1049.4	12$^+$	296.8[&]		752.6	10$^+$			
1051.1	6$^-$	127.4[‡] *5*	≈24.0	923.31	4$^-$	E2[a]	6.15 *14*	α(L)=4.44 *10*; α(M)=1.255 *29* α(N)=0.349 *8*; α(O)=0.0847 *19*; α(P)=0.01416 *32*; α(Q)=7.34×10^{-5} *14*
		756.0[‡] *3*	100[#] *8*	295.04	6$^+$	[E1]	0.00714 *10*	α(K)=0.00576 *8*; α(L)=0.001042 *15*; α(M)=0.0002504 *35* α(N)=6.84×10^{-5} *10*; α(O)=1.728×10^{-5} *24*; α(P)=3.33×10^{-6} *5*; α(Q)=2.214×10^{-7} *31*
1078.853	1$^-$	237.23 *4*	0.518 *27*	841.680	2$^-$			
		1036.00 *4*	45.7 *14*	42.851	2$^+$	E1[d]	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* E_γ: Other: 1036.0 *1* from ^{246}Bk ε decay. I_γ: Other: 47 *4* from ^{246}Bk ε decay.
		1078.85 *4*	100 *4*	0.0	0$^+$	E1[d]	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* E_γ: weighted average of 1078.86 *4* from ^{246}Am β$^-$ decay (25.0 min) and 1078.8 *1* from ^{246}Bk ε decay. I_γ: Other: 100 *8* from ^{246}Bk ε decay.
1104.865	2$^-$	263.17 *5*	0.195 *13*	841.680	2$^-$			
		962.9 *4*	0.0029 *29*	142.009	4$^+$			
		1062.04 *4*	100.0 *20*	42.851	2$^+$	E1[d]	0.00395 *6*	α(K)=0.00320 *4*; α(L)=0.000563 *8*; α(M)=0.0001348 *19*

From ENSDF

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	α[f]	Comments
								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*
								E_γ: Other: 1062.0 *1* from ^{246}Bk ε decay.
1124.261	2$^+$	982.47 *27*	3.86 *35*	142.009	4$^+$			E_γ: unweighted average of 982.73 *15* from ^{246}Am β$^-$ decay (25.0 min) and 982.2 *2* from ^{246}Bk ε decay.
								I_γ: weighted average of 5.1 *15* from ^{246}Am β$^-$ decay (25.0 min) and 3.79 *35* from ^{246}Bk ε decay.
		1081.40 *6*	100 *7*	42.851	2$^+$	E2[c]	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*
								E_γ: Other: 1081.4 *1* from ^{246}Bk ε decay.
								I_γ: from ^{246}Bk ε decay. Other: 100 *10* from ^{246}Am β$^-$ decay (25.0 min).
		1124.29 *4*	76.1 *29*	0.0	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*
								E_γ: Other: 1124.3 *1* from ^{246}Bk ε decay.
								I_γ: Other: 76 *5* from ^{246}Bk ε decay.
1128.025	3$^-$	251.50 *10*	0.179 *33*	876.444	3$^-$			
		986.03 *4*	62.7 *20*	142.009	4$^+$	(E1)[c]	0.00449 *6*	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*
		1085.15 *6*	100.0 *31*	42.851	2$^+$	E1[b]	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*
1128.8	7$^-$	(78[‡])		1051.1	6$^-$			
		148.5[‡] *3*		980.31	5$^-$			
		628.8 *3*	100 *20*	499.8	8$^+$	[E1]	0.00997 *14*	α(K)=0.00801 *11*; α(L)=0.001479 *21*; α(M)=0.000356 *5* α(N)=9.72×10^{-5} *14*; α(O)=2.454×10^{-5} *34*; α(P)=4.71×10^{-6} *7*; α(Q)=3.05×10^{-7} *4*
		833.8 *3*	≈200	295.04	6$^+$	[E1]	0.00600 *8*	α(K)=0.00485 *7*; α(L)=0.000869 *12*; α(M)=0.0002087 *29* α(N)=5.70×10^{-5} *8*; α(O)=1.442×10^{-5} *20*; α(P)=2.79×10^{-6} *4*; α(Q)=1.875×10^{-7} *26*
1165.49	3$^+$	289.3[g] *2*	<6.1[g]	876.444	3$^-$			
		1023.44 *7*	40 *5*	142.009	4$^+$			E_γ: Other: 1023.4 *2* from ^{246}Bk ε decay.
		1122.64 *6*	100 *5*	42.851	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*

From ENSDF

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	α[f]	Comments
								α(IPF)=2.167×10^{-7} *31* I_γ: Other: 100 *19* from ^{246}Bk ε decay.
1174.74	0$^+$	1131.88 *7*	100 *11*	42.851	2$^+$			
		1174.72		0.0	0$^+$	E0		Mult.: no γ observed; K/L=4.2 *5* (1976Mu03).
1178.9	8$^-$	(50[‡])		1128.8	7$^-$			
		127.4[‡] *5*	≈6.0	1051.1	6$^-$	E2[a]	6.15 *14*	α(L)=4.44 *10*; α(M)=1.255 *29* α(N)=0.349 *8*; α(O)=0.0847 *19*; α(P)=0.01416 *32*; α(Q)=7.34×10^{-5} *14* B(E2)(W.u.)=7×10^{-9} *+7−4*
		679.2[‡] *3*	100[#]	499.8	8$^+$	[E1]	0.00866 *12*	α(K)=0.00697 *10*; α(L)=0.001275 *18*; α(M)=0.000307 *4* α(N)=8.38×10^{-5} *12*; α(O)=2.116×10^{-5} *30*; α(P)=4.07×10^{-6} *6*; α(Q)=2.66×10^{-7} *4* B(E1)(W.u.)=3.4×10^{-16} *+11−8*
1210.53	2$^+$	1167.74 *5*	100 *6*	42.851	2$^+$	E0+(M1,E2)[b]	0.023 *13*	α(K)=0.018 *10*; α(L)=0.0038 *19*; α(M)=9.E−4 *4* α(N)=2.5×10^{-4} *12*; α(O)=6.5×10^{-5} *31*; α(P)=1.3×10^{-5} *6*; α(Q)=9.E−7 *5*; α(IPF)=2.5×10^{-6} *13*
		1210.35 *9*	45 *7*	0.0	0$^+$			
1219.97	4$^+$	925.0[h] *3*	2.5×10^2 *9*	295.04	6$^+$			
		1177.2 *2*	100 *27*	42.851	2$^+$			
1249.777	1$^-$	171.02 *11*	33 *13*	1078.853	1$^-$			
		373.36 *5*	14.0 *8*	876.444	3$^-$			
		407.99 *6*	6.8 *7*	841.680	2$^-$			
		1206.96 *4*	100.0 *33*	42.851	2$^+$	E1[b]	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*
		1249.79 *4*	100.0 *33*	0.0	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*
1289.3	0$^+$	1289.4		0.0	0$^+$	E0		Mult.: no γ observed.
1300.45	3$^-$	377.2 *2*	7.0 *26*	923.31	4$^-$			
		423.4[g] *5*	<15[g]	876.444	3$^-$			
		1158.47 *6*	31.9 *26*	142.009	4$^+$			
		1257.62 *6*	100 *6*	42.851	2$^+$			
1317.57?	(2)$^+$	1274.72 *4*	100	42.851	2$^+$	M1[b]	0.0285 *4*	α(K)=0.02252 *32*; α(L)=0.00446 *6*; α(M)=0.001084 *15* 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*

From ENSDF

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

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	δ	α[f]	Comments
1340.16		1198.19[h] *6*	100 *5*	142.009	4^+				
		1297.34[h] *9*	34 *4*	42.851	2^+				
1348.863	1^-	244.03 *3*	66.8 *24*	1104.865	2^-	(M1)[b]		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*
		270.07 *3*	100.0 *32*	1078.853	1^-	M1+E2[b]	0.36 *+10−13*	1.73 *10*	α(K)=1.34 *9*; α(L)=0.292 *9*; α(M)=0.0720 *20* α(N)=0.0198 *5*; α(O)=0.00502 *14*; α(P)=0.000979 *33*; α(Q)=6.6×10^{-5} *4*
		472.33 *5*	3.57 *17*	876.444	3^-				
		507.10 *5*	6.55 *29*	841.680	2^-				
		1306.8[h] *2*	0.61 *10*	42.851	2^+				E_γ: poor fit.
		1348.81 *4*	11.8 *4*	0.0	0^+	(E1)[b]		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*
1366.633	(2^-)	238.64 *3*	94 *5*	1128.025	3^-				
		261.73 *5*	100.0 *32*	1104.865	2^-				
		287.78 *3*	82.5 *29*	1078.853	1^-	(M1)[b]		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*
		443.25 *18*	2.2 *6*	923.31	4^-				
		524.92 *4*	46.8 *18*	841.680	2^-	M1(+E2)[b]	0.4 *5*		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*
		1323.77 *8*	15.9 *32*	42.851	2^+				
1379.23	(4^+)	1237.2 *2*	100 *14*	142.009	4^+				
		1336.38[g] *7*	<272[g]	42.851	2^+				
1386.4	14^+	337.0[&]		1049.4	12^+				
1451.89	1^+	277.0 *2*	4.4 *17*	1174.74	0^+				
		327.81 *17*	6.6 *22*	1124.261	2^+				
		609.98 *9*	98 *17*	841.680	2^-	E1[b]		0.01055 *15*	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*
		1409.12 *8*	74 *4*	42.851	2^+	(M1)[b]		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*

From ENSDF

$^{246}_{96}Cm_{150}$-9

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.	δ	α [f]	Comments
1451.89	1^+	1451.91 *4*	100 *4*	0.0	0^+	(M1) [b]		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*
1478.44	(2^+)	228.71 *7*	100 *20*	1249.777	1^-				
		267.3 [g] *5*	<20 [g]	1210.53	2^+				
		636.72 [g] *12*	<39 [g]	841.680	2^-				
		1336.38 [g] *7*	<53 [g]	142.009	4^+				
		1435.59 *6*	69 *7*	42.851	2^+				
1509.24	(3^+)	289.3 [g] *2*	<38 [g]	1219.97	4^+				
		381.0 [g] *3*	<13 [g]	1128.025	3^-				
		1367.9 *2*	100 *18*	142.009	4^+				E_γ: poor fit.
		1466.33 *6*	48 *6*	42.851	2^+				
		1509.0 [h] *4*	4.8 *24*	0.0	0^+				
1525.928	3^-	306.0 *3*	0.21 *13*	1219.97	4^+				
		360.39 *4*	9.7 *4*	1165.49	3^+	E1+M2 [b]	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*
		398.14 *12*	1.40 *21*	1128.025	3^-				
		401.68 *3*	45.3 *13*	1124.261	2^+	E1 [b]		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*
		421.08 *5*	3.77 *30*	1104.865	2^-				
		446.8 *5*	0.21 *17*	1078.853	1^-				
		602.54 *6*	39.8 *21*	923.31	4^-	E2+M1 [b]	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*
		649.48 *4*	62.7 *21*	876.444	3^-	E2+M1 [b]	1.96 *+31−23*	0.062 *6*	α(K)=0.045 *5*; α(L)=0.0124 *9*; α(M)=0.00315 *20* α(N)=0.00087 *6*; α(O)=0.000218 *14*; α(P)=4.14×10^{-5} *29*; α(Q)=2.24×10^{-6} *24*
		684.28 *5*	100.0 *34*	841.680	2^-	(E2+M1) [b]	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*
		1383.94 *17*	0.93 *17*	142.009	4^+				
		1483.09 *9*	3.52 *30*	42.851	2^+				
1573.74	(1^+)	1530.7 *5*	51 *10*	42.851	2^+	(M1)		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*

From ENSDF

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

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	δ	α[f]	Comments
1573.74	(1$^+$)	1573.74 *5*	100 *4*	0.0	0$^+$	(M1)[b]		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*
1593.702	2$^-$	227.4[h] *2*	1.8 *6*	1366.633	(2$^-$)				
		244.9 *2*	0.8 *5*	1348.863	1$^-$				
		293.37[g] *15*	<0.70[g]	1300.45	3$^-$				
		343.93 *4*	3.15 *12*	1249.777	1$^-$				
		465.61 *5*	3.12 *24*	1128.025	3$^-$				
		469.71 *8*	1.24 *15*	1124.261	2$^+$				E_γ: poor fit.
		488.82 *4*	11.2 *4*	1104.865	2$^-$	M1+E2[b]	0.25 *20*	0.356 *35*	α(K)=0.280 *29*; α(L)=0.057 *4*; α(M)=0.0140 *10* α(N)=0.00384 *28*; α(O)=0.00098 *7*; α(P)=0.000192 *15*; α(Q)=1.35×10^{-5} *14*
		514.79 *4*	10.6 *5*	1078.853	1$^-$	M1(+E2)[b]	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*
		670.1 *2*	1.0 *4*	923.31	4$^-$				
		717.24 *5*	30.9 *12*	876.444	3$^-$	M1[b]		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*
		752.06 *4*	100 *4*	841.680	2$^-$	(M1+E0)[b]			
		1550.94 *9*	33.3 *30*	42.851	2$^+$	E1[b]		2.27×10^{-3} *3*	α(K)=0.001707 *24*; α(L)=0.000294 *4*; α(M)=7.00×10^{-5} *10* 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*
1601.232	(2,3)$^+$	381.0[g] *3*	<0.31[g]	1219.97	4$^+$				
		476.89 *5*	3.32 *23*	1124.261	2$^+$	(M1)[b]		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*
		677.86 *6*	7.0 *6*	923.31	4$^-$				
		724.79 *4*	33.2 *12*	876.444	3$^-$	E1[b]		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*
		759.59 *4*	100.0 *31*	841.680	2$^-$	E1[b]		0.00708 *10*	α(K)=0.00571 *8*; α(L)=0.001033 *14*; α(M)=0.0002482 *35*

From ENSDF

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

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	α[f]	Comments
								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*
1601.232	(2,3)$^+$	1459.32 *6*	1.47 *16*	142.009	4$^+$			
		1558.35 *10*	2.63 *27*	42.851	2$^+$			
1604.17	(1$^-$)	354.45 *6*	6.3 *10*	1249.777	1$^-$			
		1561.30 *5*	93 *4*	42.851	2$^+$			
		1604.14 *5*	100 *4*	0.0	0$^+$			
1621.500	3$^-$	321.07 *4*	7.9 *5*	1300.45	3$^-$			
		456.11 *6*	5.9 *7*	1165.49	3$^+$			
		493.46 *4*	45.7 *16*	1128.025	3$^-$	(M1)[b]	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*
		516.60 *13*	4.2 *11*	1104.865	2$^-$			
		698.27 *5*	49.5 *32*	923.31	4$^-$	(M1)[b]	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*
		745.05 *4*	100.0 *32*	876.444	3$^-$	(M1+E0)[b]		
		779.76 *8*	28 *4*	841.680	2$^-$	M1[b]	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*
		1479.43 *4*	96.8 *32*	142.009	4$^+$	E1[b]	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* α(IPF)=0.0001332 *19*
		1578.62 *5*	32.8 *13*	42.851	2$^+$			
1628.92?		1486.90[h] *7*	40 *30*	142.009	4$^+$			
		1586.1[h] *2*	100 *50*	42.851	2$^+$			
1633.53	(2)$^-$	267.3[g] *5*	<1.5[g]	1366.633	(2$^-$)			
		293.37[g] *15*	<1.10[g]	1340.16				
		383.73 *6*	3.6 *4*	1249.777	1$^-$	(M1)[b]	0.724 *10*	α(K)=0.570 *8*; α(L)=0.1158 *16*; α(M)=0.0283 *4* α(N)=0.00776 *11*; α(O)=0.001976 *28*; α(P)=0.000389 *5*; α(Q)=2.77×10^{-5} *4*
		423.4[g] *5*	<1.1[g]	1210.53	2$^+$			
		505.61[g] *13*	<2.7[g]	1128.025	3$^-$			
		528.69 *7*	2.86 *29*	1104.865	2$^-$	(M1)[b]	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*
		554.68 *6*	2.81 *29*	1078.853	1$^-$	(M1,E2)[b]	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.E−5 *5*; α(Q)=6.E−6 *4*

From ENSDF

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

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.	δ	α [f]	Comments
1633.53	(2)$^-$	791.5 *2*	12.4 *24*	841.680	2$^-$				
		1590.68 *5*	100 *7*	42.851	2$^+$	E1+M2 [b]	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*
1659.19	(1$^-$)	554.4 *2*	100 *8*	1104.865	2$^-$	(M1,E2) [b]		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.E−5 *5*; α(Q)=6.E−6 *4*
		1616.3 *2*	13.5 *34*	42.851	2$^+$				
		1659.18 *10*	57 *5*	0.0	0$^+$				
1661.65	(1$^+$)	451.2 [g] *2*	<1.6 [g]	1210.53	2$^+$				
		487.2 *3*	4.1 *9*	1174.74	0$^+$				
		820.7 [h] *3*	1.7 *10*	841.680	2$^-$				
		1618.80 *4*	51.0 *20*	42.851	2$^+$	(M1) [b]		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*
		1661.63 *5*	100.0 *33*	0.0	0$^+$	(M1) [b]		0.01421 *20*	α(K)=0.01102 *15*; α(L)=0.002175 *30*; α(M)=0.000529 *7* 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*
1671.01	(3$^-$)	451.2 [g] *2*	<1.6 [g]	1219.97	4$^+$				
		505.61 [g] *13*	<6.4 [g]	1165.49	3$^+$				
		542.92 *5*	17.8 *22*	1128.025	3$^-$	(M1+E2) [b]	0.5 *4*	0.24 *6*	α(K)=0.18 *5*; α(L)=0.039 *8*; α(M)=0.0095 *18* α(N)=0.0026 *5*; α(O)=0.00066 *12*; α(P)=0.000130 *25*; α(Q)=8.9×10^{-6} *23*
		566.12 *5*	19.1 *11*	1104.865	2$^-$	M1(+E2) [b]	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*
		747.74 *8*	11.1 *22*	923.31	4$^-$				
		829.37 *8*	8.0 *16*	841.680	2$^-$				
		1529.00 *7*	100 *5*	142.009	4$^+$	[E1]		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*
		1628.17 *5*	24.6 *12*	42.851	2$^+$	(E1) [b]		2.16×10^{-3} *3*	α(K)=0.001577 *22*; α(L)=0.000270 *4*; α(M)=6.45×10^{-5} *9*

From ENSDF

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

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	α[f]	Comments
								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*
1680.81	(2$^+$)	461.2[h] *2*	2.0 *8*	1219.97	4$^+$			
		1538.9 *2*	0.85 *29*	142.009	4$^+$			
		1637.95 *5*	100 *12*	42.851	2$^+$	(M1)[b]	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*
		1680.69 *18*	0.66 *12*	0.0	0$^+$			
1712.39	(3$^+$)	1570.46 *7*	98 *8*	142.009	4$^+$			
		1669.50 *5*	100 *6*	42.851	2$^+$			
1759.5	16$^+$	373.1[&]		1386.4	14$^+$			
1780.81	2$^+$	414.16 *6*	9.3 *11*	1366.633	(2$^-$)			
		656.35 *14*	10.4 *25*	1124.261	2$^+$	M1+E0[b]		
		904.42 *5*	51.3 *20*	876.444	3$^-$	(E1)[b]	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*
		939.15 *5*	69 *5*	841.680	2$^-$	(E1)[b]	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*
		1737.94 *5*	100 *7*	42.851	2$^+$	(M1)[b]	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*
		1780.5 *2*	3.6 *9*	0.0	0$^+$			
1821.76		1778.92 *6*	100 *6*	42.851	2$^+$			
		1821.70 *12*	6.6 *13*	0.0	0$^+$			
1836.73	2$^+$,1$^-$	960.2 *3*	100 *41*	876.444	3$^-$			
		1794.7 *4*	6.8 *23*	42.851	2$^+$			
		1836.71 *6*	86 *9*	0.0	0$^+$			
1856.61	3$^+$	347.26[h] *4*	8.8×10^2 *5*	1509.24	(3$^+$)			
		636.72[gh] *12*	<5.4×10^2[g]	1219.97	4$^+$			
		732.5[g] *2*	<7.2×10^2[g]	1124.261	2$^+$			
		1714.61 *9*	79 *8*	142.009	4$^+$			
		1813.73 *6*	100 *9*	42.851	2$^+$			
1870.21	1,2$^+$	580.9[g] *3*	<56[g]	1289.3	0$^+$			
		1827.39 *5*	100 *8*	42.851	2$^+$			
		1869.81 *15*	5.2 *10*	0.0	0$^+$			

From ENSDF

$^{246}_{96}Cm_{150}$-14

Adopted Levels, Gammas (continued)

γ(^{246}Cm) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.
1875.52	1,2$^+$	751.0 *3*	100 *36*	1124.261	2$^+$	
		1832.6 *3*	1.4 *7*	42.851	2$^+$	
		1875.56 *12*	2.4 *6*	0.0	0$^+$	
1886.77	(1$^+$)	434.92 *13*	48 *15*	1451.89	1$^+$	(M1+E0)[b]
		1045.08 *6*	100 *17*	841.680	2$^-$	
		1843.86 *5*	49 *4*	42.851	2$^+$	
		1886.80 *5*	69 *4*	0.0	0$^+$	
1898.08	2$^+$	732.5[g] *2*	<1.3×10^3[g]	1165.49	3$^+$	
		1756.1 *2*	95 *15*	142.009	4$^+$	
		1855.34 *12*	100 *33*	42.851	2$^+$	
		1897.8 *2*	30 *7*	0.0	0$^+$	
1901.33	2$^+$,3	1759.30 *5*	100 *8*	142.009	4$^+$	
		1858.7 *2*	3.6 *6*	42.851	2$^+$	
1906.12	2$^+$,3,4$^+$	1764.2 *2*	95 *21*	142.009	4$^+$	
		1863.19 *18*	100 *16*	42.851	2$^+$	
1909.32	2$^+$,1	1866.48 *6*	100 *15*	42.851	2$^+$	
		1909.27 *9*	28.5 *30*	0.0	0$^+$	
1924.56	1,2$^+$	1881.70 *5*	91 *9*	42.851	2$^+$	
		1924.56 *5*	100 *9*	0.0	0$^+$	
1947.09	2$^+$,3,4$^+$	325.61 *8*	100 *17*	1621.500	3$^-$	
		1804.8 *2*	15 *4*	142.009	4$^+$	
		1904.26 *10*	20.4 *25*	42.851	2$^+$	
1983.35	(1$^-$,2$^+$)	271.1 *2*	100 *50*	1712.39	(3$^+$)	
		361.85[h] *9*	245 *30*	1621.500	3$^-$	
		1940.43 *18*	11.0 *20*	42.851	2$^+$	
		1983.2 *3*	6.0 *20*	0.0	0$^+$	
2032.51	1,2$^+$	370.81[h] *13*	4.1×10^2 *10*	1661.65	(1$^+$)	
		580.9[g] *3*	<1.03×10^3[g]	1451.89	1$^+$	
		1989.63 *8*	100 *19*	42.851	2$^+$	
		2032.49 *11*	98 *36*	0.0	0$^+$	
2146.05	1,2$^+$	2103.18 *7*	51 *5*	42.851	2$^+$	
		2146.05 *7*	100 *6*	0.0	0$^+$	
2164.4	18$^+$	404.9[&]		1759.5	16$^+$	
2171.42	2$^+$,3	577.9[h] *3*	6.5×10^2 *17*	1593.702	2$^-$	
		2029.39 *8*	90 *10*	142.009	4$^+$	
		2128.57 *9*	100 *10*	42.851	2$^+$	
2597.4	20$^+$	433.0[&]		2164.4	18$^+$	
3055	22$^+$	457.9[&]		2597.4	20$^+$	

From ENSDF

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

Adopted Levels, Gammas (continued)

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

E_i(level)	J_i^π	E_γ †	E_f	J_f^π
3534	24^+	479.1&	3055	22^+
4033	26^+	498.1&	3534	24^+

† From ^{246}Am β- decay (25 min), except as noted.
‡ From ^{246}Am β- decay (39 min).
# From ^{246}Am β- decay (39 min).
@ From ^{246}Bk ε decay.
& From (+209Bi,^{211}Biγ).
[a] From conversion electron data in ^{246}Am β^- decay (39 min) (2008Ro21).
[b] From conversion electron data in ^{246}Am β^- decay (25.0 min) (1976Mu03,1966Or01).
[c] From conversion electron data in ^{246}Bk ε decay (1976Ah03,1966Or01).
[d] From conversion electron data in ^{246}Am β^- decay (25.0 min) (1976Mu03,1966Or01) and ^{246}Bk ε decay (1976Ah03,1966Or01).
[e] From conversion electron data in ^{246}Bk ε decay (1976Ah03,1966Or01) and ^{246}Am α decay (1971Ch15).
[f] Additional information 2.
[g] Multiply placed with undivided intensity.
[h] Placement of transition in the level scheme is uncertain.

From ENSDF

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

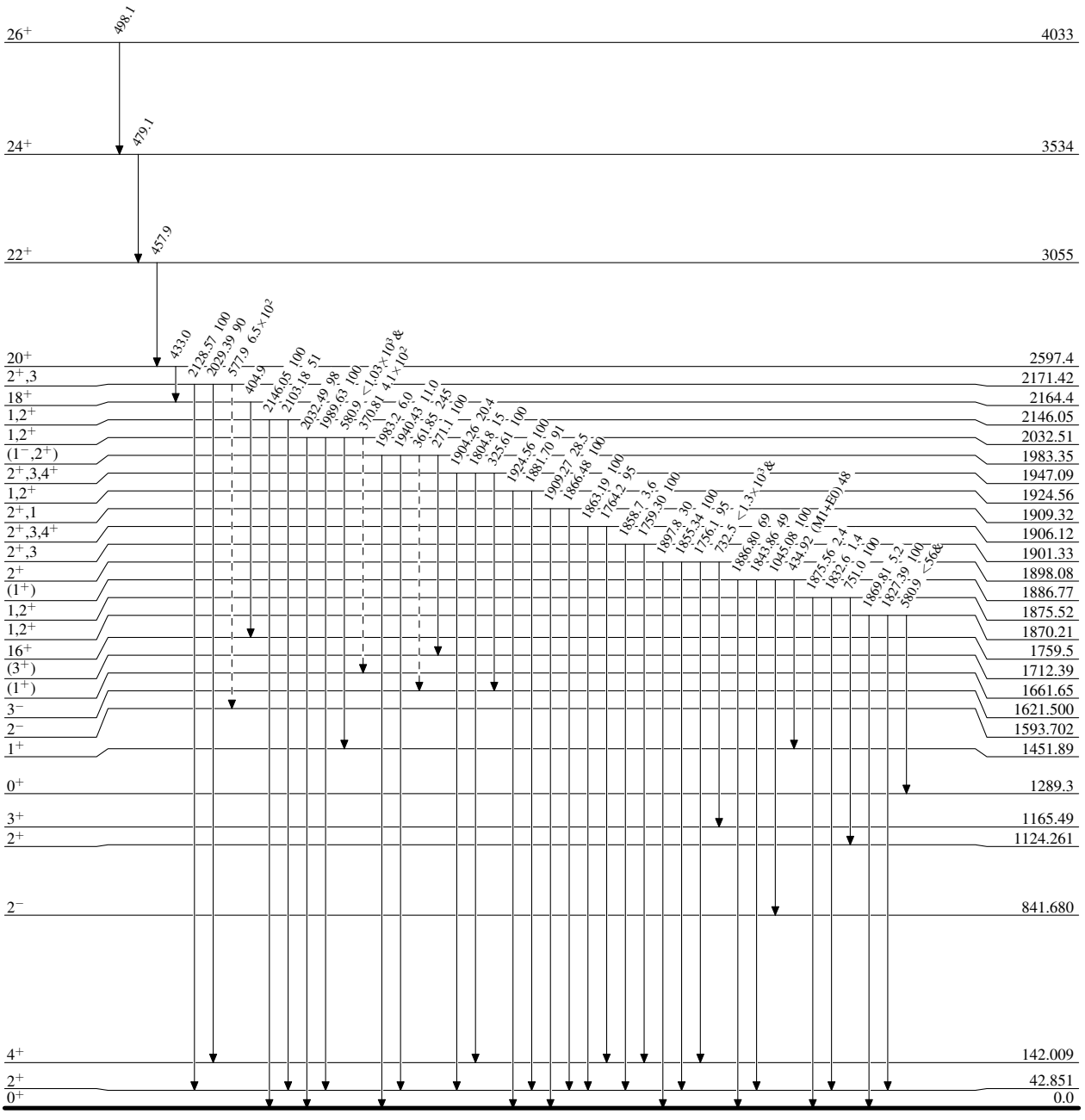
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

γ Decay (Uncertain)



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

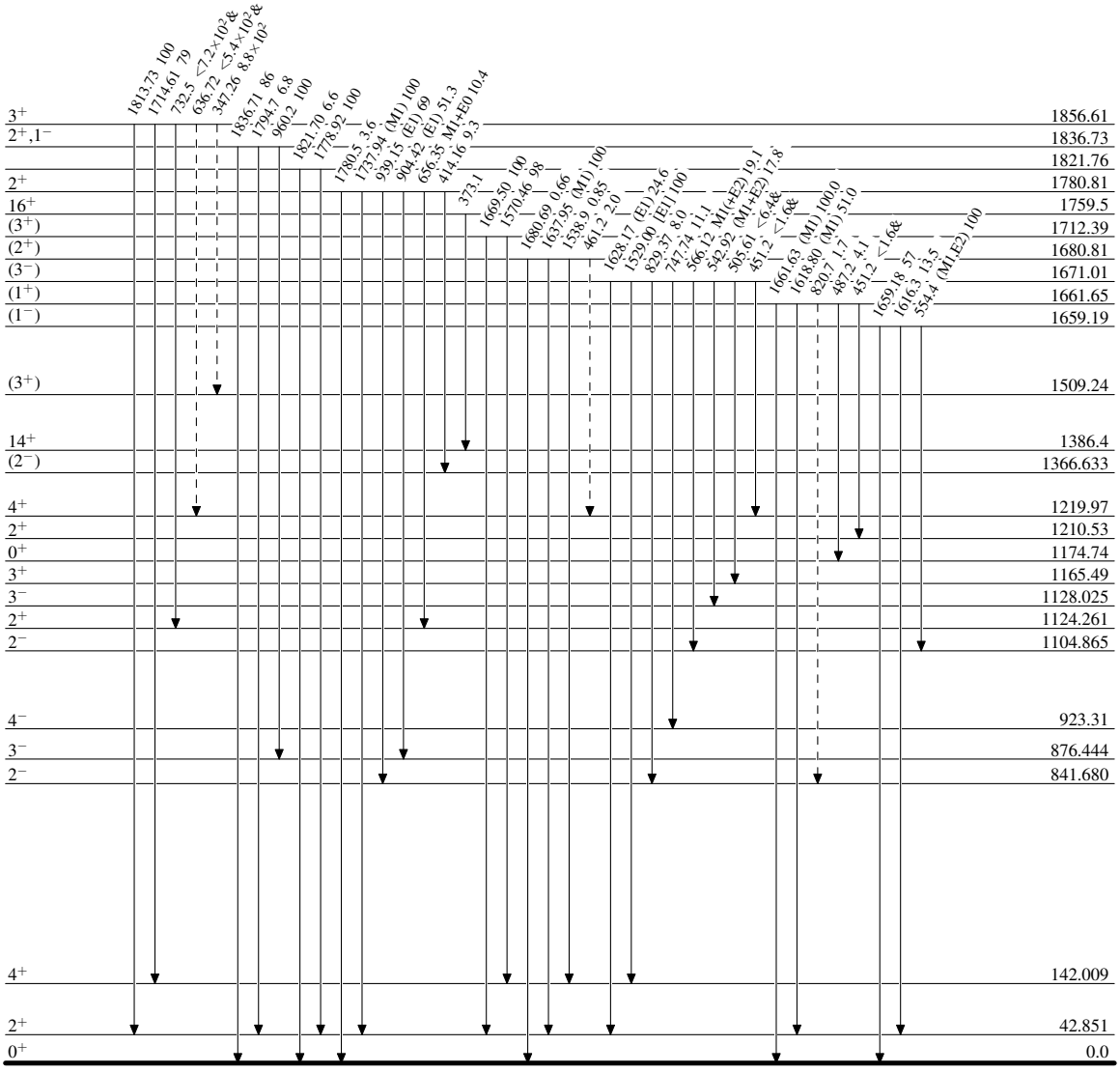
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

– – – – – – ► γ Decay (Uncertain)



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

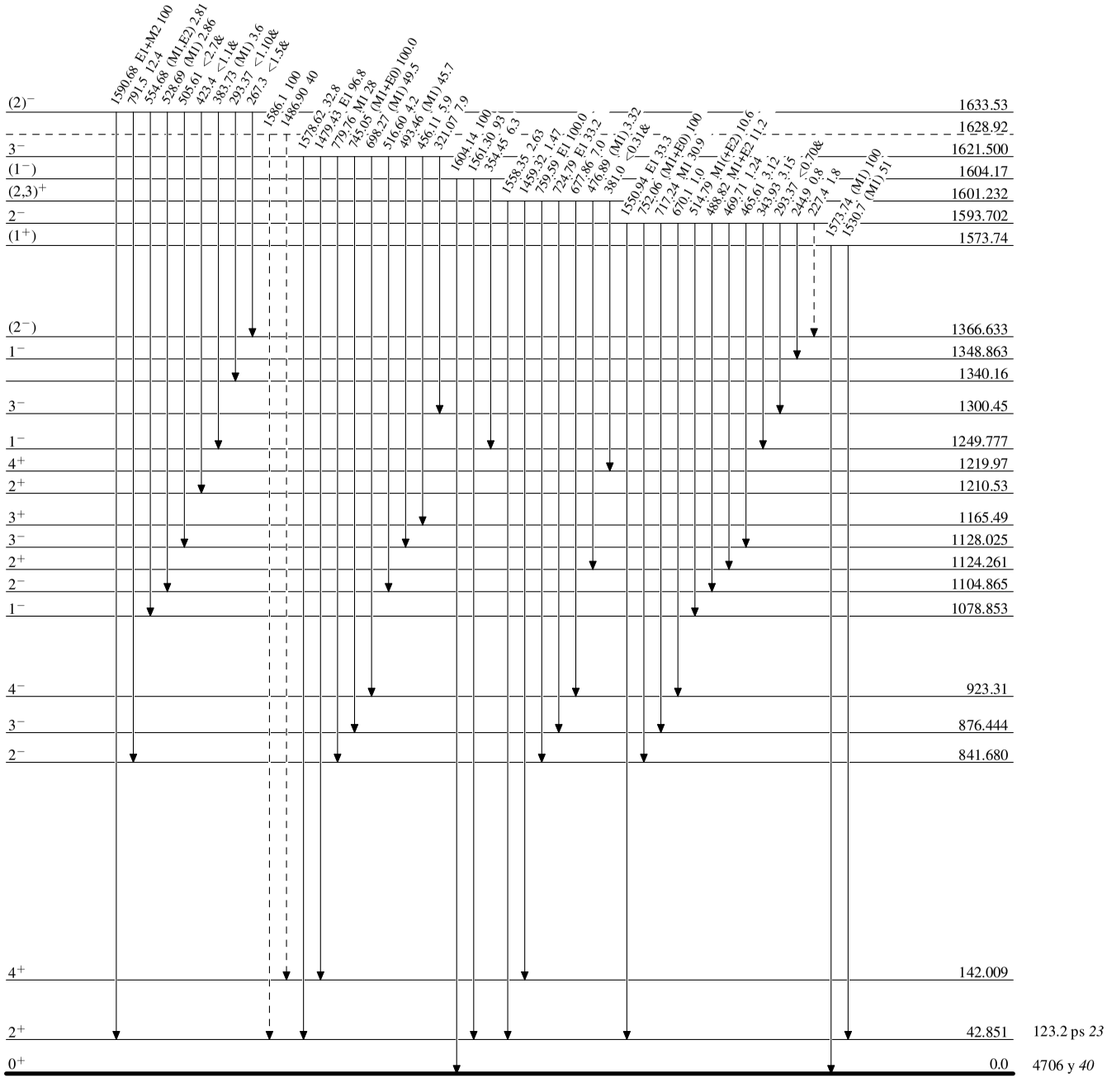
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

γ Decay (Uncertain)



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

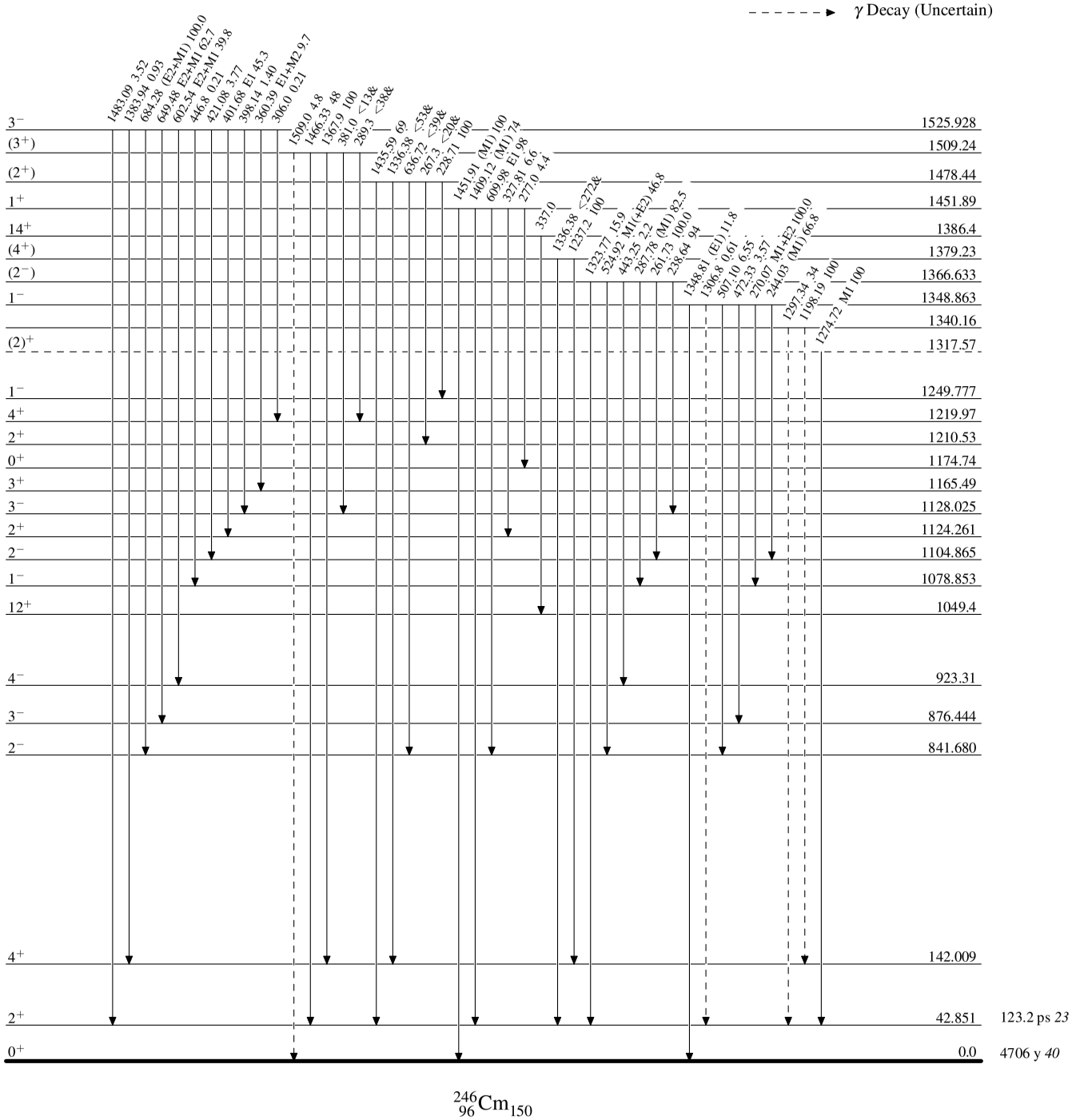
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

γ Decay (Uncertain)



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

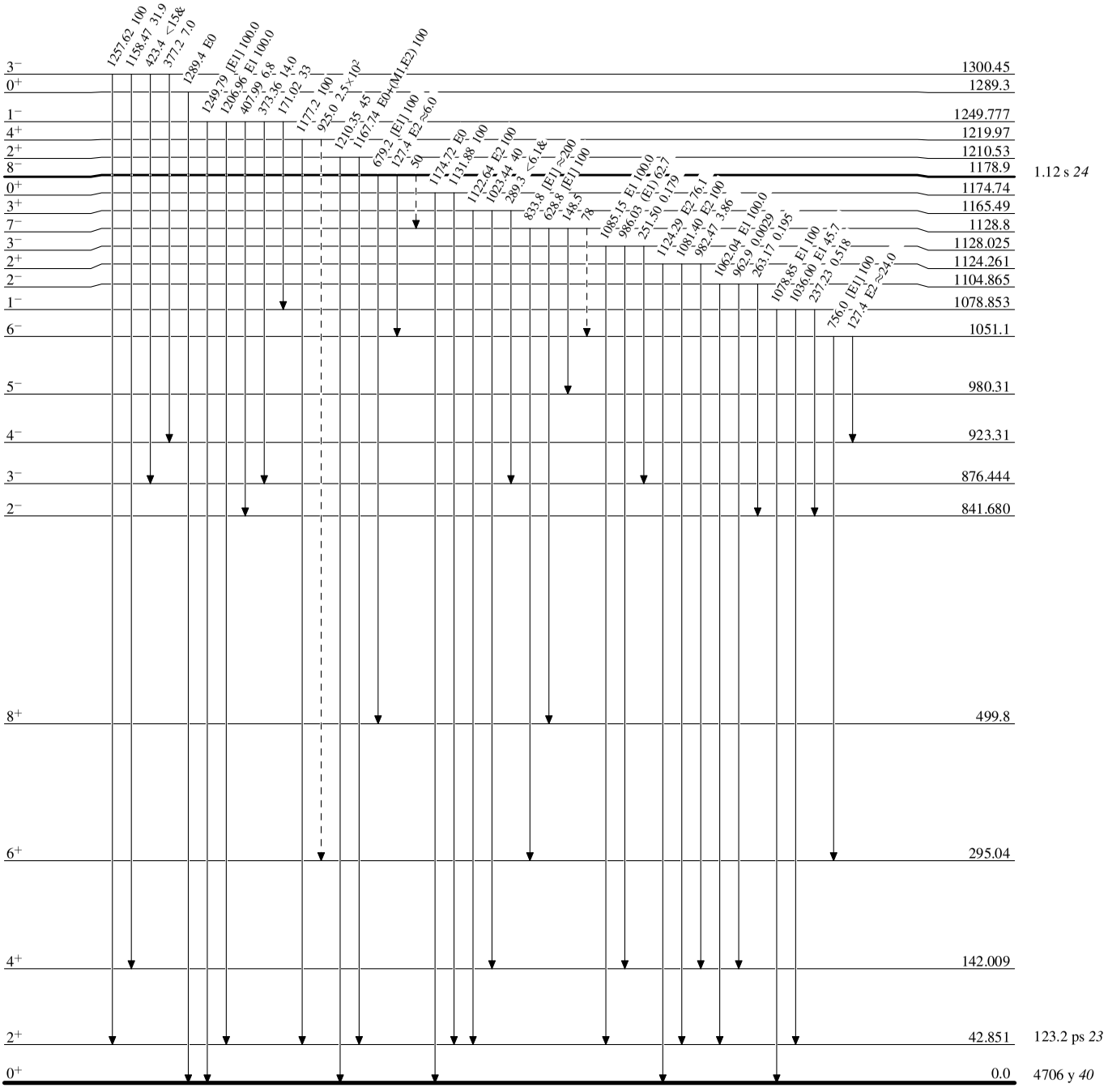
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

– – – – – – ► γ Decay (Uncertain)

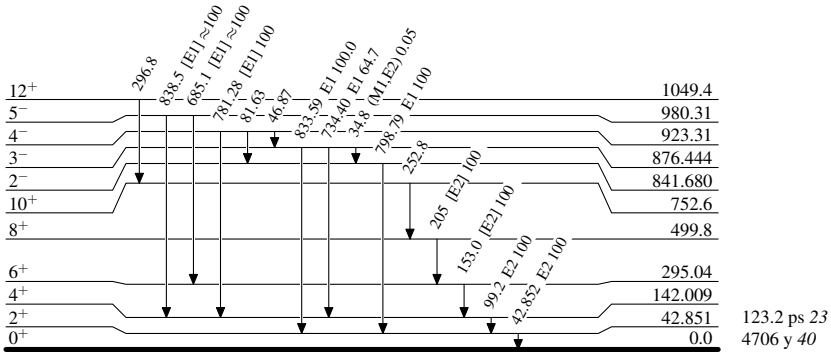


$^{246}_{96}Cm_{150}$

Adopted Levels, Gammas

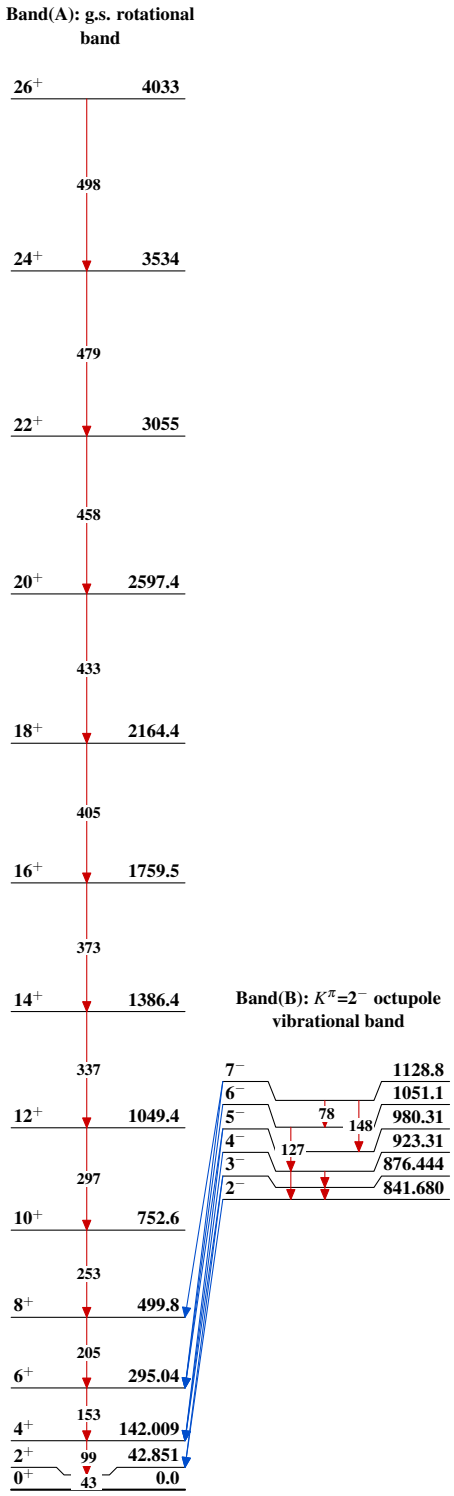
Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given



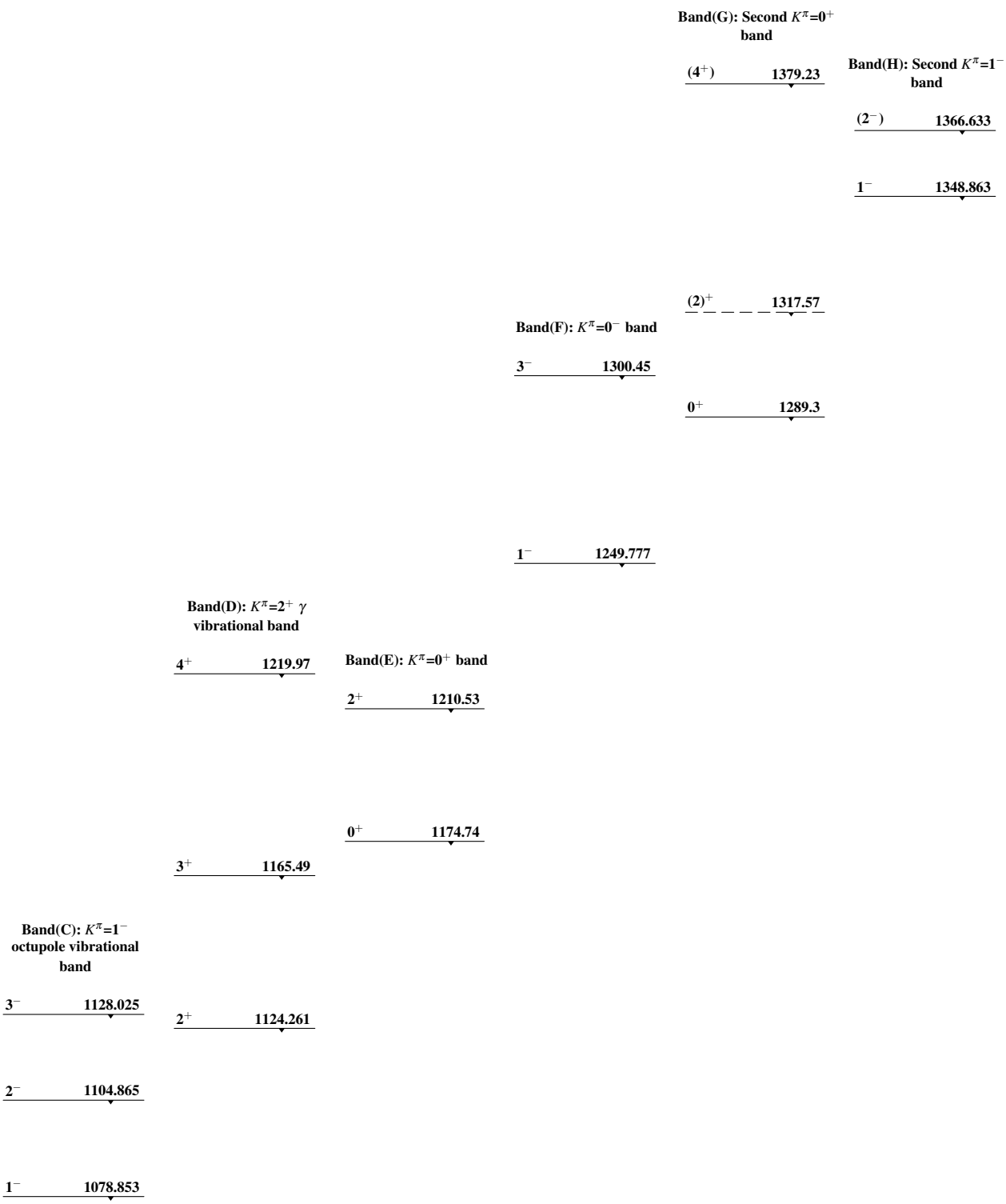
$^{246}_{96}Cm_{150}$

Adopted Levels, Gammas



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

Adopted Levels, Gammas (continued)



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

Adopted Levels, Gammas (continued)

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

(3^{+}) 1712.39

Band(L): Third $K^{\pi}=1^{-}$ band

(2^{+}) 1680.81

(3^{-}) 1671.01

(1^{+}) 1661.65

Band(K): Second $K^{\pi}=2^{-}$ band

$(2)^{-}$ 1633.53

3^{-} 1621.500

(1^{-}) 1604.17

Band(J): $K^{\pi}=3^{-}$ octupole vibrational band head

2^{-} 1593.702

3^{-} 1525.928

Band(I): $K^{\pi}=1^{+}$ band

(3^{+}) 1509.24

(2^{+}) 1478.44

1^{+} 1451.89

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