^{124}Ba ε decay 1986We01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu	NDS 109, 1655 (2008)	1-Apr-2008

Parent: ^{124}Ba: E=0.0; J$^{\pi}$=0^{+}; T$_{1/2}$=11.0 min *5*; Q(ε)=2642 *15*; %ε+%β^{+} decay=100.0

The decay scheme is that proposed by 1986We01 on the basis of Eγ sums and $\gamma\gamma$ coin. The decay scheme is incomplete. Many low-energy γ rays may cause the intensity imbalance. Log *ft* values may suffer from the imbalance.

1986We01: La(^{3}He,spall) Ce(^{3}He,spall) E(^{3}He)=280 MeV, on-line ms, semi; measured Eγ, Iγ, ce, $\gamma\gamma$ coin, γce coin.

1972Dr06: ^{116}Sn(^{12}C,4n) chem; measured T$_{1/2}$, γ.

Other: 1978Bo32.

^{124}Cs Levels

E(level)†	J$^{\pi}$‡	T$_{1/2}$	E(level)†	J$^{\pi}$‡	E(level)†	J$^{\pi}$‡
0.0	1^{+}	30.8 s *5*	417.19 *10*	(3,4)$^{+}$	1000.91 *25*	0,1,2
169.53 *6*	(1)$^{+}$		443.86 *9*	(1,2)$^{+}$	1014.45 *22*	
188.98 *6*	(2)$^{+}$		464.91 *15*	1,2	1040.32 *20*	0,1,2
211.65 *6*	(3)$^{+}$		505.60 *8*	(1,2,3)$^{+}$	1049.23 *22*	0,1
242.88 *6*	(3)$^{+}$		512.29 *10*	(1,2,3)$^{+}$	1097.88 *18*	0,1
253.32 *7*	(1)$^{+}$		557.98 *20*	(1,2)$^{+}$	1131.93 *17*	1
270.32 *8*	(3)$^{+}$		596.17 *17*		1141.58 *19*	0,1,2
272.13 *9*	(0,1)$^{+}$		596.63 *8*	+	1168.62 *21*	0,1
272.68 *6*	(2,3)$^{+}$		613.90 *8*	(0,1,2)$^{+}$	1216.62 *12*	(1^{+})
282.62 *7*	3^{+}		671.42 *12*	0,1,2	1244.57 *10*	(1)$^{+}$
301.12 *8*	(4)$^{-}$		751.65 *14*	(1^{+})	1259.84 *14*	(1^{+})
312.48 *6*	(2)$^{+}$		770.82 *9*	(1,2,3)$^{+}$	1388.90 *16*	(1^{+})
338.5? *8*			846.5 *3*		1433.4 *3*	0,1,2
348.76? *9*			864.1 *4*	1,2	1589.4 *4*	0,1,2
362.73 *6*	(3)$^{+}$		895.7 *3*	0,1,2	1623.2 *5*	0,1,2
397.61 *17*	(5)$^{-}$		920.69 *17*	(0 to 3)$^{+}$	1638.3? *10*	0,1,2
401.32 *9*	(1,2)$^{+}$		933.85 *20*	0,1	1707.3 *5*	0,1,2
404.31 *9*	(1^{+},2^{+})		950.4?			

† From a least-squares fit to Eγ′s.
‡ From Adopted Levels.

ε,β^{+} radiations

E(decay)	E(level)	Iβ^{+} †	Iε†	Log *ft*	I($\varepsilon+\beta^{+}$)†	Comments
(935 *15*)	1707.3		0.40 *9*	5.77 *10*	0.40 *9*	εK=0.8471 *2*; εL=0.1197 *2*; εM+=0.03324 *4*
(1004 *15*)	1638.3?		0.21 *5*	6.11 *11*	0.21 *5*	εK=0.8477 *2*; εL=0.1192 *1*; εM+=0.03309 *4*
(1019 *15*)	1623.2		0.31 *7*	5.96 *10*	0.31 *7*	εK=0.8478 *2*; εL=0.1191 *1*; εM+=0.03306 *3*
(1053 *15*)	1589.4		0.96 *15*	5.49 *8*	0.96 *15*	εK=0.8481 *2*; εL=0.11893 *9*; εM+=0.03300 *3*
(1209 *15*)	1433.4		0.63 *12*	5.80 *9*	0.63 *12*	εK=0.8490; εL=0.11814 *7*; εM+=0.03274 *3*
(1253 *15*)	1388.90		3.2 *5*	5.13 *8*	3.2 *5*	εK=0.8491; εL=0.11794 *7*; εM+=0.03268 *3*
(1382 *15*)	1259.84	0.0067 *15*	3.7 *5*	5.15 *7*	3.7 *5*	av Eβ=171.4 *68*; εK=0.8484 *3*; εL=0.11730 *9*; εM+=0.03248 *3*
(1397 *15*)	1244.57	0.019 *4*	9.1 *13*	4.77 *7*	9.1 *13*	av Eβ=178.2 *68*; εK=0.8482 *3*; εL=0.11721 *9*; εM+=0.03245 *3*
(1425 *15*)	1216.62	0.037 *8*	13.1 *18*	4.63 *7*	13.1 *18*	av Eβ=190.5 *66*; εK=0.8477 *4*; εL=0.1170 *1*; εM+=0.03240 *3*
(1473 *15*)	1168.62	0.0048 *10*	1.08 *18*	5.74 *8*	1.08 *18*	av Eβ=211.5 *66*; εK=0.8465 *5*; εL=0.1167 *2*; εM+=0.03230 *4*
(1500 *15*)	1141.58	0.0033 *6*	0.59 *8*	6.02 *7*	0.59 *8*	av Eβ=223.4 *66*; εK=0.8456 *6*; εL=0.11650 *13*;

Continued on next page (footnotes at end of table)

^{124}Ba ε decay 1986We01 (continued)

ε,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ †	Iε†	Log *ft*	I(ε+β^+)†	Comments
						εM+=0.03224 *4*
(1510 *15*)	1131.93	0.011 *3*	1.8 *5*	5.54 *13*	1.8 *5*	av Eβ=227.6 *66*; εK=0.8453 *6*; εL=0.11642 *13*; εM+=0.03222 *4*
(1544 *15*)	1097.88	0.0123 *24*	1.55 *25*	5.63 *8*	1.56 *25*	av Eβ=242.4 *66*; εK=0.8439 *8*; εL=0.11612 *15*; εM+=0.03213 *5*
(1593 *15*)	1049.23	0.0124 *23*	1.11 *17*	5.80 *7*	1.12 *17*	av Eβ=263.7 *66*; εK=0.8413 *10*; εL=0.11562 *17*; εM+=0.03199 *5*
(1602 *15*)	1040.32	0.0083 *18*	0.70 *14*	6.00 *9*	0.71 *14*	av Eβ=267.6 *66*; εK=0.8408 *10*; εL=0.11553 *18*; εM+=0.03196 *5*
(1641 *15*)	1000.91	0.0073 *19*	0.48 *12*	6.19 *11*	0.49 *12*	av Eβ=284.8 *66*; εK=0.8382 *12*; εL=0.11506 *20*; εM+=0.03182 *6*
(1708 *15*)	933.85	0.028 *5*	1.25 *19*	5.81 *7*	1.28 *19*	av Eβ=314.0 *66*; εK=0.8326 *15*; εL=0.11412 *24*; εM+=0.03156 *7*
(1746 *15*)	895.7	0.015 *5*	0.54 *18*	6.20 *15*	0.55 *18*	av Eβ=330.7 *66*; εK=0.8287 *17*; εL=0.1135 *3*; εM+=0.03138 *8*
(1778 *15*)	864.1	0.009 *4*	0.27 *12*	6.51 *19*	0.28 *12*	av Eβ=344.5 *66*; εK=0.8252 *19*; εL=0.1129 *3*; εM+=0.03123 *8*
(1890 *15*)	751.65	0.22 *3*	4.3 *6*	5.36 *7*	4.5 *6*	av Eβ=393.7 *66*; εK=0.8095 *25*; εL=0.1106 *4*; εM+=0.03056 *11*
(1971 *15*)	671.42	0.022 *6*	0.31 *8*	6.54 *12*	0.33 *9*	av Eβ=428.8 *66*; εK=0.795 *3*; εL=0.1085 *5*; εM+=0.02999 *12*
(2028 *15*)	613.90	0.09 *4*	1.0 *5*	6.05 *20*	1.1 *5*	av Eβ=454.1 *66*; εK=0.784 *4*; εL=0.1068 *5*; εM+=0.02952 *13*
(2084 *15*)	557.98	0.025 *9*	0.24 *8*	6.71 *16*	0.26 *9*	av Eβ=478.8 *67*; εK=0.771 *4*; εL=0.1051 *5*; εM+=0.02902 *14*
(2177 *15*)	464.91	0.12 *2*	0.87 *18*	6.18 *9*	0.99 *20*	av Eβ=519.9 *67*; εK=0.748 *4*; εL=0.1018 *6*; εM+=0.02811 *16*
(2198 *15*)	443.86	0.030 *10*	0.20 *7*	6.83 *16*	0.23 *8*	av Eβ=529.2 *67*; εK=0.743 *4*; εL=0.1010 *6*; εM+=0.02789 *16*
(2238 *15*)	404.31	0.13 *3*	0.82 *17*	6.23 *10*	0.95 *20*	av Eβ=546.7 *67*; εK=0.732 *5*; εL=0.0994 *6*; εM+=0.02747 *17*
(2241 *15*)	401.32	0.21 *4*	1.3 *3*	6.04 *9*	1.5 *3*	av Eβ=548.0 *67*; εK=0.731 *5*; εL=0.0993 *6*; εM+=0.02743 *17*
(2279‡ *15*)	362.73	0.15 *3*	0.84 *18*	6.24 *10*	0.99 *21*	av Eβ=565.2 *67*; εK=0.720 *5*; εL=0.0978 *7*; εM+=0.02700 *18*
(2330 *15*)	312.48	0.55 *9*	2.6 *4*	5.76 *8*	3.2 *5*	av Eβ=587.5 *67*; εK=0.705 *5*; εL=0.0957 *7*; εM+=0.02642 *18*
(2370 *15*)	272.13	0.36 *8*	1.5 *3*	6.01 *10*	1.9 *4*	av Eβ=605.4 *67*; εK=0.692 *5*; εL=0.0939 *7*; εM+=0.02593 *19*
(2389 *15*)	253.32	0.74 *14*	3.1 *6*	5.72 *9*	3.8 *7*	av Eβ=613.8 *67*; εK=0.686 *5*; εL=0.0931 *7*; εM+=0.02570 *19*
(2472 *15*)	169.53	4.3 *6*	14.4 *19*	5.07 *7*	18.7 *25*	av Eβ=651.2 *67*; εK=0.659 *5*; εL=0.0893 *7*; εM+=0.02465 *20*
(2642 *15*)	0.0	5 *3*	12 *8*	5.2 *3*	17 *11*	av Eβ=727.2 *68*; εK=0.600 *6*; εL=0.0812 *8*; εM+=0.02242 *20*

† Absolute intensity per 100 decays.

‡ Existence of this branch is questionable.

γ(^{124}Cs)

Iγ normalization: From I(354γ, 2$^+$ to 0$^+$ in ^{124}Xe)=47% *6*.
RI(F,H,I) Whole intensity of this γ was assigned to other components by authors.
α(K)exp are from Ice(K)/Iγ normalized to α(K)(E2)=0.0207 for 354γ (2$^+$ to 0$^+$) in ^{124}Xe.

E_γ[†]	I_γ[†‡e]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[c]	α[f]	Comments
[x]≈33								L/M=4.0 *4*. E_γ: listed only in authors′ conversion-electron table.
36.1[ai]		348.76?		312.48	$(2)^+$			
[x]38.0 *1*								
[x]38.65 *5*								
38.65[i] *5*		443.86	$(1,2)^+$	404.31	$(1^+,2^+)$			E_γ: 38.7 in authors′ drawing. Not placed in authors′ table.
43.70 *5*	1.26 *6*	1141.58	0,1,2	1097.88	0,1			
[x]44.90 *8*	0.30 *5*							
50.3 *1*	0.07 *2*	362.73	$(3)^+$	312.48	$(2)^+$			
53.85 *5*	3.89 *8*	242.88	$(3)^+$	188.98	$(2)^+$	M1	5.37	α(K)=4.60 *7*; α(L)=0.618 *9*; α(M)=0.1266 *18*; α(N+..)=0.0306 *5* α(N)=0.0267 *4*; α(O)=0.00371 *6*; α(P)=0.000181 *3* α(L)exp=0.63 *+5−6*, L/M=4.5 *6*.
58.20 *8*	0.26 *3*	301.12	$(4)^-$	242.88	$(3)^+$	E1	0.974	α(K)=0.825 *12*; α(L)=0.1189 *18*; α(M)=0.0242 *4*; α(N+..)=0.00565 *9* α(N)=0.00498 *8*; α(O)=0.000644 *10*; α(P)=2.39×10^{-5} *4* α(L)exp=0.12 *+3−2*.
59.15 *8*	0.17 *3*	312.48	$(2)^+$	253.32	$(1)^+$			
61.6[gi] *1*		362.73	$(3)^+$	301.12	$(4)^-$			E_γ: complex line (1986We01).
61.6[g] *1*	≈0.017	505.60	$(1,2,3)^+$	443.86	$(1,2)^+$			E_γ: complex line (1986We01). I_γ: From the intensity (≈0.06) in the figure in 1986We01. Iγ=0.17 *4* for a doublet.
66.2 *1*	0.22 *4*	348.76?		282.62	3^+			
69.50 *5*	3.06 *6*	312.48	$(2)^+$	242.88	$(3)^+$	(M1)	2.56	α(K)=2.19 *4*; α(L)=0.294 *5*; α(M)=0.0601 *9*; α(N+..)=0.01455 *21* α(N)=0.01270 *18*; α(O)=0.001765 *25*; α(P)=8.63×10^{-5} *13* α(K)exp≈1.2, K/L≈8.9.
70.9 *1*	0.22 *4*	282.62	3^+	211.65	$(3)^+$			E_γ: complex line (1986We01).
73.3[a]		242.88	$(3)^+$	169.53	$(1)^+$			
74.8[@] *1*	≈0.06	671.42	0,1,2	596.63	$^+$			
[x]76.9 *1*	0.13 *3*					(M1)	1.91	α(K)=1.637 *24*; α(L)=0.219 *4*; α(M)=0.0448 *7*; α(N+..)=0.01085 *16* α(N)=0.00947 *14*; α(O)=0.001316 *19*; α(P)=6.44×10^{-5} *10* α(K)exp≈1.6.
[x]79.4 *1*	0.15 *3*					M1,E2	3.0 *13*	α(K)=1.9 *5*; α(L)=0.8 *7*; α(M)=0.18 *14*; α(N+..)=0.04 *4* α(N)=0.04 *3*; α(O)=0.004 *4*; α(P)=6.1×10^{-5} *3* α(K)exp=2.1 *+8−6*.
81.3 *1*	0.10 *2*	443.86	$(1,2)^+$	362.73	$(3)^+$	M1,E2	2.8 *12*	α(K)=1.8 *5*; α(L)=0.8 *6*; α(M)=0.16 *13*; α(N+..)=0.04 *3* α(N)=0.033 *25*; α(O)=0.004 *3*; α(P)=5.7×10^{-5} *3* α(K)exp=2.2 *+11−6*.

$\gamma(^{124}Cs)$ (continued)

E_γ[†]	I_γ[†‡e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[c]	δ[c]	α[f]	Comments
83.7 *1*	0.34 *3*	253.32	$(1)^+$	169.53	$(1)^+$	(M1,E2)		2.5 *11*	α(K)=1.7 *4*; α(L)=0.7 *5*; α(M)=0.14 *11*; α(N+..)=0.033 *24* α(N)=0.029 *22*; α(O)=0.0035 *25*; α(P)=5.3×10^{-5} *3* α(K)exp≈1.2, K/L≈3.2.
84.40[gi] *15*		338.5?		253.32	$(1)^+$				
84.40[g] *15*	0.20 *3*	596.63	$^+$	512.29	$(1,2,3)^+$				I_γ: From the intensity in the figure in 1986We01. Iγ=0.29 *3* for a doublet. α(K)exp≈0.8, K/L≈7.1.
88.3 *1*	0.12 *3*	505.60	$(1,2,3)^+$	417.19	$(3,4)^+$				α(K)exp≈0.5.
89.50 *8*	0.62 *4*	301.12	$(4)^-$	211.65	$(3)^+$	E1		0.299	α(K)=0.255 *4*; α(L)=0.0347 *5*; α(M)=0.00705 *10*; α(N+..)=0.001665 *24* α(N)=0.001463 *21*; α(O)=0.000194 *3*; α(P)=7.85×10^{-6} *12* α(K)exp=0.25 *+5−4*, K/L=7.5 *12*.
90.07 *5*	1.03 *4*	362.73	$(3)^+$	272.68	$(2,3)^+$	M1(+E2)	<0.2	1.24 *4*	α(K)=1.052 *19*; α(L)=0.152 *14*; α(M)=0.031 *3*; α(N+..)=0.0075 *7* α(N)=0.0066 *6*; α(O)=0.00090 *7*; α(P)=4.10×10^{-5} *6* α(K)exp=0.88 *12*, K/L=7.5 *11*, L/M≈4.6.
90.95 *7*	0.20 *3*	596.63	$^+$	505.60	$(1,2,3)^+$	M1,E2		1.9 *8*	α(K)=1.3 *3*; α(L)=0.5 *4*; α(M)=0.10 *8*; α(N+..)=0.023 *17* α(N)=0.020 *15*; α(O)=0.0024 *17*; α(P)=4.19×10^{-5} *22* α(K)exp=2.2 *+6−5*.
93.68[g] *5*	0.60 *4*	282.62	3^+	188.98	$(2)^+$	M1(+E2)	<0.6	1.25 *17*	α(K)=1.00 *8*; α(L)=0.20 *8*; α(M)=0.042 *17*; α(N+..)=0.010 *4* α(N)=0.009 *4*; α(O)=0.0011 *4*; α(P)=3.71×10^{-5} *8* I_γ: From the intensity in the figure in 1986We01. Iγ=0.64 *4* for a doublet. α(K)exp=0.96 *+11−9*.
93.68[gi] *5*		864.1	1,2	770.82	$(1,2,3)^+$				
96.50 *15*	0.04 *2*	397.61	$(5)^-$	301.12	$(4)^-$				
100.7 *1*	0.26 *4*	270.32	$(3)^+$	169.53	$(1)^+$	E2		1.82	α(K)=1.184 *17*; α(L)=0.504 *8*; α(M)=0.1089 *16*; α(N+..)=0.0247 *4* α(N)=0.0221 *4*; α(O)=0.00260 *4*; α(P)=3.29×10^{-5} *5* α(K)exp=0.92 *+30−23*, K/L=3.5 *+7−6*.
101.58 *7*	0.62 *4*	613.90	$(0,1,2)^+$	512.29	$(1,2,3)^+$	M1+E2	1.0 *3*	1.31 *16*	α(K)=0.95 *8*; α(L)=0.29 *7*; α(M)=0.062 *15*; α(N+..)=0.014 *4* α(N)=0.013 *3*; α(O)=0.0015 *4*; α(P)=3.05×10^{-5} *7* α(K)exp=0.89 *15*, K/L=3.4 *+6−5*, L/M=4.2 *2*.
102.6 *1*	0.65 *5*	272.13	$(0,1)^+$	169.53	$(1)^+$	[d]			α(K)exp=0.58 *6*, K/L=5.6 *6*, L/M=4.2 *4* for 102.6 γ and 103.16 γ.
103.16 *5*	2.96 *8*	272.68	$(2,3)^+$	169.53	$(1)^+$	[d]			
104.6 *1*	0.37 *4*	417.19	$(3,4)^+$	312.48	$(2)^+$	M1,E2		1.2 *4*	α(K)=0.87 *19*; α(L)=0.26 *17*; α(M)=0.06 *4*; α(N+..)=0.013 *9* α(N)=0.011 *8*; α(O)=0.0014 *9*; α(P)=2.81×10^{-5} *15* α(K)exp=1.3 *+4−2*.
108.29 *5*	2.02 *6*	613.90	$(0,1,2)^+$	505.60	$(1,2,3)^+$	M1		0.718	α(K)=0.615 *9*; α(L)=0.0819 *12*; α(M)=0.01676 *24*; α(N+..)=0.00406 *6* α(N)=0.00354 *5*; α(O)=0.000493 *7*; α(P)=2.42×10^{-5} *4* α(K)exp=0.56 *3*, K/L=7.2 *3*, L/M=1.8 *2*.

γ(^{124}Cs) (continued)

E_γ[†]	I_γ[†‡e]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[c]	δ[c]	α[f]	Comments
113.0[@i]	≈0.06	301.12	(4)$^-$	188.98	(2)$^+$				
115.0[@i] 2	≈0.10	417.19	(3,4)$^+$	301.12	(4)$^-$				
119.89 7	3.45 7	362.73	(3)$^+$	242.88	(3)$^+$	M1		0.539	α(K)=0.462 7; α(L)=0.0613 9; α(M)=0.01255 18; α(N+..)=0.00304 5 α(N)=0.00265 4; α(O)=0.000369 6; α(P)=1.81×10^{-5} 3 α(K)exp=0.43 +3−1, K/L=7.5 +5−4, L/M=4.8 4.
123.5 1	1.17 6	312.48	(2)$^+$	188.98	(2)$^+$	M1+E2	1.0 2	0.69 5	α(K)=0.524 23; α(L)=0.132 17; α(M)=0.028 4; α(N+..)=0.0065 9 α(N)=0.0057 8; α(O)=0.00071 9; α(P)=1.74×10^{-5} 3 α(K)exp=0.46 4, K/L=4.1 3, L/M=2.8 9.
129.30 15	0.32 5	401.32	(1,2)$^+$	272.13	(0,1)$^+$	M1,E2		0.59 16	α(K)=0.46 9; α(L)=0.11 6; α(M)=0.023 14; α(N+..)=0.005 3 α(N)=0.005 3; α(O)=0.0006 3; α(P)=1.52×10^{-5} 6 α(K)exp=0.67 +19−13.
130.70[h] 15	<0.33[h]	401.32	(1,2)$^+$	270.32	(3)$^+$				Iγ=0.33 5 for a doublet.
130.70[h] 15	0.13[h] 2	443.86	(1,2)$^+$	312.48	(2)$^+$				I_γ: From the intensity in the figure in 1986We01. Iγ=0.33 5 for a doublet.
134.3[@]	≈0.14	404.31	(1$^+$,2$^+$)	270.32	(3)$^+$				
≈143[a]		505.60	(1,2,3)$^+$	362.73	(3)$^+$				
148.2[@]	≤0.3	401.32	(1,2)$^+$	253.32	(1)$^+$				
151.0[h] 1	0.48[h] 15	362.73	(3)$^+$	211.65	(3)$^+$				I_γ: From the intensity in the figure in 1986We01. Iγ=1.69 15 for a doublet. α(K)exp=0.23 3, K/L=4.2 4 for a doublet.
151.0[h] 1	1.21[h] 15	404.31	(1$^+$,2$^+$)	253.32	(1)$^+$				I_γ: From the intensity in the figure in 1986We01. Iγ=1.69 15 for a doublet.
156.87[h] 7	2.68[h] 10	505.60	(1,2,3)$^+$	348.76?					I_γ: From the intensity in the figure in 1986We01. Iγ=5.35 10 for a doublet. α(K)exp=0.25 1, K/L=5.1 +27−14, L/M>2.4 for a doublet.
156.87[h] 7	2.68[h] 10	770.82	(1,2,3)$^+$	613.90	(0,1,2)$^+$				I_γ: From the intensity in the figure in 1986We01. Iγ=5.35 10 for a doublet.
158.9[@i]	≈0.27	401.32	(1,2)$^+$	242.88	(3)$^+$				
169.5 1	46.1 4	169.53	(1)$^+$	0.0	1$^+$	M1(+E2)	<0.6	0.217 12	α(K)=0.183 7; α(L)=0.027 5; α(M)=0.0057 10; α(N+..)=0.00136 21 α(N)=0.00119 19; α(O)=0.000161 21; α(P)=6.91×10^{-6} 10 α(K)exp=0.183 8, K/L=7.4 3, L/M≈4.8.
170.2[i] 2	1.1 2	613.90	(0,1,2)$^+$	443.86	(1,2)$^+$				
174.2 1	2.55 15	770.82	(1,2,3)$^+$	596.63	$^+$	M1(+E2)	<0.8	0.206 16	α(K)=0.172 9; α(L)=0.027 6; α(M)=0.0056 12; α(N+..)=0.0013 3 α(N)=0.00117 24; α(O)=0.00016 3; α(P)=6.40×10^{-6} 10 α(K)exp=0.16 2, K/L≈3.9, L/M≈1.4.
185.7[@]	≤0.4	397.61	(5)$^-$	211.65	(3)$^+$				
189.0 1	27.4 5	188.98	(2)$^+$	0.0	1$^+$	M1+E2	0.5 1	0.162 4	α(K)=0.136 3; α(L)=0.0209 13; α(M)=0.0043 3;

From ENSDF

γ(^{124}Cs) (continued)

Eγ[†]	Iγ[†‡e]	Ei(level)	J^{π}_{i}	Ef	J^{π}_{f}	Mult.[c]	α[f]	Comments
								α(N+..)=0.00103 *6* α(N)=0.00091 *6*; α(O)=0.000122 *6*; α(P)=5.09×10^{-6} *8* α(K)exp=0.126 *6*, K/L=6.6 *+3−4*, L/M=3.0 *2*.
189.0[&i] *1*		1433.4	0,1,2	1244.57	(1)$^+$			
189.7[@]	≤1.0	401.32	(1,2)$^+$	211.65	(3)$^+$			
192.70[g&i] *15*		362.73	(3)$^+$	169.53	(1)$^+$			
192.70[g&] *15*	1.9 *1*	404.31	(1$^+$,2$^+$)	211.65	(3)$^+$	(M1,E2)	0.167 *23*	α(K)=0.136 *12*; α(L)=0.025 *9*; α(M)=0.0052 *19*; α(N+..)=0.0012 *4* α(N)=0.0011 *4*; α(O)=0.00014 *4*; α(P)=4.76×10^{-6} *13* α(K)exp≤0.13.
211.6 *1*	9.2 *2*	211.65	(3)$^+$	0.0	1$^+$	E2	0.1375	α(K)=0.1085 *16*; α(L)=0.0230 *4*; α(M)=0.00485 *7*; α(N+..)=0.001127 *16* α(N)=0.000998 *14*; α(O)=0.0001257 *18*; α(P)=3.49×10^{-6} *5* α(K)exp=0.114 *4*, K/L=3.9 *3*, L/M=2.8 *3*.
212.6[h@] *2*	<0.5[h]	401.32	(1,2)$^+$	188.98	(2)$^+$			Iγ: From the intensity in the figure in 1986We01. Iγ=0.70 *15* for a doublet.
212.6[h] *2*	0.20[h] *4*	613.90	(0,1,2)$^+$	401.32	(1,2)$^+$			Iγ: From the intensity in the figure in 1986We01. Iγ=0.70 *15* for a doublet.
≈230.1[h]	0.15[h] *5*	512.29	(1,2,3)$^+$	282.62	3$^+$			Iγ: From the intensity in the figure in 1986We01. Iγ=0.3 *1* for a doublet.
≈230.1[h]	≈0.15[h]	1244.57	(1)$^+$	1014.45				Iγ: From the intensity in the figure in 1986We01. Iγ=0.3 *1* for a doublet.
≈232.6	0.5 *1*	401.32	(1,2)$^+$	169.53	(1)$^+$			
≈234.6[h#]	0.2[h] *1*	404.31	(1$^+$,2$^+$)	169.53	(1)$^+$			Iγ: From the intensity in the figure in 1986We01. Iγ=0.4 *1* for a triplet.
≈234.6[h#]	≈0.2[h]	596.17		362.73	(3)$^+$			Iγ: From the intensity in the figure in 1986We01. Iγ=0.4 *1* for a doublet.
≈234.6[#i]		596.63	$^+$	362.73	(3)$^+$			
243.3[gi] *3*		242.88	(3)$^+$	0.0	1$^+$			
243.3[g] *3*	0.75 *15*	1014.45		770.82	(1,2,3)$^+$			Iγ=0.75 *15* for a doublet. α(K)exp≈0.16.
≈252.8		505.60	(1,2,3)$^+$	253.32	(1)$^+$			Eγ: one component of a triplet in authors′ table.
253.25[h] *15*	12.1[h] *3*	253.32	(1)$^+$	0.0	1$^+$	M1,E2	0.072 *4*	α(K)=0.0602 *11*; α(L)=0.0097 *20*; α(M)=0.0020 *5*; α(N+..)=0.00048 *10* α(N)=0.00042 *9*; α(O)=5.6×10^{-5} *9*; α(P)=2.17×10^{-6} *17* α(K)exp=0.063 *+5−4*, K/L=5.8 *+26−14*, L/M=5.0 *14*. Iγ: From the intensity in the figure in 1986We01. Iγ=13.3 *3* for a triplet.
253.25[h] *15*	1.2[h] *3*	464.91	1,2	211.65	(3)$^+$			Iγ: From the intensity in the figure in 1986We01. Iγ=13.3 *3* for a triplet.
258.6 *3*	0.3 *1*	512.29	(1,2,3)$^+$	253.32	(1)$^+$			
262.5 *3*	0.3 *1*	505.60	(1,2,3)$^+$	242.88	(3)$^+$			α(K)exp≈0.12.

$^{124}_{55}Cs_{69}$-6

γ(^{124}Cs) (continued)

Eγ[†]	Iγ[†‡e]	Ei(level)	J^π_i	Ef	J^π_f	Mult.[c]	α[f]	Comments
270.30 *15*	7.26 *30*	270.32	(3)$^+$	0.0	1$^+$	E2	0.0609	α(K)=0.0494 *7*; α(L)=0.00913 *13*; α(M)=0.00191 *3*; α(N+..)=0.000449 *7* α(N)=0.000396 *6*; α(O)=5.09×10^{-5} *8*; α(P)=1.653×10^{-6} *24* α(K)exp=0.019 *2*, K/L=3.3 *+18−9*, L/M=2.7 *16*.
272.2 *2*	7.7 *4*	272.13	(0,1)$^+$	0.0	1$^+$			
272.8 *2*	3.8 *4*	272.68	(2,3)$^+$	0.0	1$^+$			
278.4 *5*	0.4 *1*	1049.23	0,1	770.82	(1,2,3)$^+$			α(K)exp≈0.08. Eγ: complex line (1986We01).
283.7[g#] *3*	0.8 *1*	596.17		312.48	(2)$^+$			Iγ=0.8 *1* for a doublet.
283.7[g#i] *3*		596.63	+	312.48	(2)$^+$			
283.7[g#i] *3*	<0.8	1216.62	(1$^+$)	933.85	0,1			Iγ: much less than 0.8.
287.6 *3*	0.90 *8*	557.98	(1,2)$^+$	270.32	(3)$^+$	M1,E2	0.0497 *8*	α(K)=0.0417 *12*; α(L)=0.0064 *9*; α(M)=0.00133 *20*; α(N+..)=0.00032 *5* α(N)=0.00028 *4*; α(O)=3.7×10^{-5} *4*; α(P)=1.52×10^{-6} *15* α(K)exp=0.06 *1*.
291[@]	≤0.2	1388.90	(1$^+$)	1097.88	0,1			
294.1 *3*	0.60 *8*	505.60	(1,2,3)$^+$	211.65	(3)$^+$	M1,E2	0.0466	α(K)=0.0391 *14*; α(L)=0.0060 *8*; α(M)=0.00124 *17*; α(N+..)=0.00029 *4* α(N)=0.00026 *4*; α(O)=3.5×10^{-5} *4*; α(P)=1.43×10^{-6} *15* α(K)exp≈0.04.
300.7[gi] *3*		301.12	(4)$^-$	0.0	1$^+$			
300.7[g] *3*	0.92 *9*	512.29	(1,2,3)$^+$	211.65	(3)$^+$			
312.7 *3*	0.94 *10*	312.48	(2)$^+$	0.0	1$^+$	M1,E2	0.0390 *11*	α(K)=0.0328 *16*; α(L)=0.0049 *5*; α(M)=0.00102 *12*; α(N+..)=0.000243 *24* α(N)=0.000213 *22*; α(O)=2.87×10^{-5} *19*; α(P)=1.20×10^{-6} *14* α(K)exp=0.05 *2*.
320.6	0.3 *1*	1216.62	(1$^+$)	895.7	0,1,2			
323.9 *3*	0.9 *1*	1244.57	(1)$^+$	920.69	(0 to 3)$^+$	M1,E2	0.0353 *13*	α(K)=0.0297 *17*; α(L)=0.0044 *4*; α(M)=0.00091 *9*; α(N+..)=0.000218 *18* α(N)=0.000191 *17*; α(O)=2.58×10^{-5} *14*; α(P)=1.09×10^{-6} *13* α(K)exp≈0.04.
326.9 *4*	1.0 *2*	1097.88	0,1	770.82	(1,2,3)$^+$	M1,E2	0.0343 *13*	α(K)=0.0290 *17*; α(L)=0.0043 *4*; α(M)=0.00089 *8*; α(N+..)=0.000212 *17* α(N)=0.000186 *16*; α(O)=2.51×10^{-5} *13*; α(P)=1.06×10^{-6} *13* α(K)exp≈0.03.
338.8[g&i] *4*		338.5?		0.0	1$^+$			
338.8[g&] *4*	1.0 *2*	1259.84	(1$^+$)	920.69	(0 to 3)$^+$			
353.9[h] *1*	0.70[h]	596.63	+	242.88	(3)$^+$			Eγ,Iγ: this γ is multiplet including 2$^+$ to 0$^+$ transition in ^{124}Xe. Values are from authors′ drawing.
353.9[i]		950.4?		596.63	+			Iγ: no intensity was given by authors.
[x]355.2 *2*	2.4 *3*							
362.9 *5*	≈0.1	362.73	(3)$^+$	0.0	1$^+$			

$^{124}_{55}$Cs$_{69}$-7

γ(^{124}Cs) (continued)

E_γ[†]	I_γ[†‡e]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[c]	δ[c]	α[f]	Comments
369.0 6	<0.1[b]	770.82	(1,2,3)$^+$	401.32	(1,2)$^+$				
374.2 3	1.1 1	1388.90	(1$^+$)	1014.45					
380.4 5	0.5[b] 1	1244.57	(1)$^+$	864.1	1,2				
385.0 4	0.7 1	596.63	$^+$	211.65	(3)$^+$				
388.2 5	<0.5[b]	1388.90	(1$^+$)	1000.91	0,1,2				
392.5 4	0.7 1	1433.4	0,1,2	1040.32	0,1,2				
397.8[g&i] 5		397.61	(5)$^-$	0.0	1$^+$				
397.8[g&] 5	0.5 1	1244.57	(1)$^+$	846.5					
401.6 3	4.4[b] 1	401.32	(1,2)$^+$	0.0	1$^+$	M1(+E2)	<0.8	0.0203 7	α(K)=0.0174 7; α(L)=0.00232 4; α(M)=0.000475 7; α(N+..)=0.0001148 17 α(N)=0.0001003 15; α(O)=1.387$\times10^{-5}$ 24; α(P)=6.7$\times10^{-7}$ 4 α(K)exp=0.019 +3−2.
404.2 5	0.8 1	404.31	(1$^+$,2$^+$)	0.0	1$^+$				
407.2 4	2.2 1	596.17		188.98	(2)$^+$				
413.3 5	≈0.3	1259.84	(1$^+$)	846.5					
416.9 4	1.0 1	1168.62	0,1	751.65	(1$^+$)				
432[@i]	≈0.15	770.82	(1,2,3)$^+$	338.5?					
439.1 4	0.7 1	751.65	(1$^+$)	312.48	(2)$^+$				
445.0 4	0.7 1	846.5		401.32	(1,2)$^+$				
454.6[g] 5	<0.4	920.69	(0 to 3)$^+$	464.91	1,2				I_γ: From branching ratio in the figure in 1986We01. Iγ=0.4 1 for a doublet.
454.6[g] 5	<0.4	1388.90	(1$^+$)	933.85	0,1				
458.3[@i]	≈0.1	770.82	(1,2,3)$^+$	312.48	(2)$^+$				
464.4 4	1.2 1	464.91	1,2	0.0	1$^+$				
≈470.5	≤0.3	1638.3?	0,1,2	1168.62	0,1				
473.7 3	4.50 15	1244.57	(1)$^+$	770.82	(1,2,3)$^+$	M1(+E2)	<0.8	0.0133 6	α(K)=0.0114 6; α(L)=0.00150 4; α(M)=0.000306 7; α(N+..)=7.40$\times10^{-5}$ 18 α(N)=6.46$\times10^{-5}$ 15; α(O)=9.0$\times10^{-6}$ 3; α(P)=4.4$\times10^{-7}$ 3 α(K)exp=0.015 4.
479.4 3	2.4 1	751.65	(1$^+$)	272.13	(0,1)$^+$				
482.3 4	1.6 1	671.42	0,1,2	188.98	(2)$^+$				
≈488.4[i]	0.4 1	1259.84	(1$^+$)	770.82	(1,2,3)$^+$				
≈498.0	≈0.2	751.65	(1$^+$)	253.32	(1)$^+$				
≈527.8	≤0.2	770.82	(1,2,3)$^+$	242.88	(3)$^+$				
532.5[h] 4	0.57[h] 7	895.7	0,1,2	362.73	(3)$^+$				I_γ: From branching ratio in the figure in 1986We01. Iγ=0.8 1 for a doublet.
532.5[h] 4	0.23[h] 3	933.85	0,1	401.32	(1,2)$^+$				I_γ: From the intensity in the figure in 1986We01. Iγ=0.8 1 for a doublet.
558.0[h] 3	≈0.4[h]	557.98	(1,2)$^+$	0.0	1$^+$				I_γ: From the intensity in the figure in 1986We01. Iγ=1.4 1 for a doublet.

γ(^{124}Cs) (continued)

E_γ[†]	I_γ[†‡e]	E_i(level)	J^π_i	E_f	J^π_f	Comments
558.0[h] 3	≈1.0[h]	920.69	(0 to 3)$^+$	362.73	(3)$^+$	I_γ: From the intensity in the figure in 1986We01. Iγ=1.4 1 for a doublet.
562.7 4	0.6 1	751.65	(1$^+$)	188.98	(2)$^+$	
573.1 3	0.9 1	1244.57	(1)$^+$	671.42	0,1,2	
[x]578.6 4	0.5 1					
582.6 4	0.6 1	770.82	(1,2,3)$^+$	188.98	(2)$^+$	
≈593.2	≈0.3	864.1	1,2	270.32	(3)$^+$	
≈597.0	≤0.2	1000.91	0,1,2	404.31	(1$^+$,2$^+$)	
≈601.9[i]	≤0.2	770.82	(1,2,3)$^+$	169.53	(1)$^+$	
608.6 4	0.7 1	920.69	(0 to 3)$^+$	312.48	(2)$^+$	
610.4 5	0.4 1	1014.45		404.31	(1$^+$,2$^+$)	
≈618.1	≈0.1	1388.90	(1$^+$)	770.82	(1,2,3)$^+$	
620.6 3	2.0 1	1216.62	(1$^+$)	596.17		
623.4 4	0.9 1	895.7	0,1,2	272.68	(2,3)$^+$	
≈638.1	≤0.2	1040.32	0,1,2	401.32	(1,2)$^+$	
648.3[gi] 3		920.69	(0 to 3)$^+$	272.68	(2,3)$^+$	
648.3[g] 3	0.17 2	1244.57	(1)$^+$	596.17		I_γ: From the intensity in the figure in 1986We01. Iγ=1.2 1 for a doublet.
≈659.1	≤0.4	1216.62	(1$^+$)	557.98	(1,2)$^+$	
666.2[@]	<0.2	1707.3	0,1,2	1040.32	0,1,2	
671.1[@]	≤0.2	671.42	0,1,2	0.0	1$^+$	
680.7 4	0.6 1	933.85	0,1	253.32	(1)$^+$	
[x]682.8 4	≤0.4					
686.5 4	0.4 1	1244.57	(1)$^+$	557.98	(1,2)$^+$	
693.9 5	0.3 1	1097.88	0,1	404.31	(1$^+$,2$^+$)	
≈697[ai]		1097.88	0,1	401.32	(1,2)$^+$	
≈701.9	≈0.2	1259.84	(1$^+$)	557.98	(1,2)$^+$	
≈707.4[i]	≈0.2	950.4?		242.88	(3)$^+$	
727.6 4	0.55 10	1131.93	1	404.31	(1$^+$,2$^+$)	
≈731[a]		1131.93	1	401.32	(1,2)$^+$	
751.7 2	6.6 3	751.65	(1$^+$)	0.0	1$^+$	
[x]753.8 4	1.0 1					
764.3 4	0.6 1	1168.62	0,1	404.31	(1$^+$,2$^+$)	
≈767[a]		1168.62	0,1	401.32	(1,2)$^+$	
768.9 4	0.7 1	1131.93	1	362.73	(3)$^+$	
≈771.6	≈0.2	1014.45		242.88	(3)$^+$	
781	≈0.1[b]	1244.57	(1)$^+$	464.91	1,2	
786.8 4	0.5 1	1040.32	0,1,2	253.32	(1)$^+$	
≈792.6	≈0.2	1388.90	(1$^+$)	596.17		
795.8 4	0.5 1	1049.23	0,1	253.32	(1)$^+$	
≈803.4[i]	≈0.1	1141.58	0,1,2	338.5?		
812.4 5	≈0.2	1216.62	(1$^+$)	404.31	(1$^+$,2$^+$)	
≈815[a]		1216.62	(1$^+$)	401.32	(1,2)$^+$	

γ(^{124}Cs) (continued)

E_γ[†]	I_γ[†‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
819.0 *4*	0.30 *7*	1131.93	1	312.48	(2)$^+$	
825.6 *4*	1.1 *1*	1097.88	0,1	272.13	(0,1)$^+$	
831.4 *4*	0.7 *1*	1000.91	0,1,2	169.53	(1)$^+$	
837.1 *5*	0.40 *7*	1433.4	0,1,2	596.17		
840.3 *5*	≈0.4	1244.57	(1)$^+$	404.31	(1$^+$,2$^+$)	
851.5 *5*	0.4 *1*	1040.32	0,1,2	188.98	(2)$^+$	
859.2 *4*	0.7 *1*	1259.84	(1$^+$)	401.32	(1,2)$^+$	
864.0 *4*	0.8[b] *2*	864.1	1,2	0.0	1$^+$	
≈878.3	≈0.3	1131.93	1	253.32	(1)$^+$	
881.7 *2*	3.0 *1*	1244.57	(1)$^+$	362.73	(3)$^+$	
888.6 *5*	≈0.15	1131.93	1	242.88	(3)$^+$	
896.4[gi] *4*		895.7	0,1,2	0.0	1$^+$	
896.4[g] *4*	<0.70	1168.62	0,1	272.13	(0,1)$^+$	
≈918.5	≤0.3	1589.4	0,1,2	671.42	0,1,2	
928.4 *5*	0.45 *10*	1097.88	0,1	169.53	(1)$^+$	
932.1 *3*	3.6 *1*	1244.57	(1)$^+$	312.48	(2)$^+$	
933.6 *3*	2.10 *15*	933.85	0,1	0.0	1$^+$	
937.4[@]	≈0.1	1707.3	0,1,2	770.82	(1,2,3)$^+$	
943.5 *5*	0.6 *1*	1216.62	(1$^+$)	272.68	(2,3)$^+$	
946.5 *3*	2.50 *15*	1216.62	(1$^+$)	270.32	(3)$^+$	
963.0[g] *3*	<3.1	1131.93	1	169.53	(1)$^+$	E_γ: complex line (1986We01). Iγ=3.10 *15* for a doublet.
963.0[g] *3*	<3.1	1216.62	(1$^+$)	253.32	(1)$^+$	
972.1 *3*	2.0 *1*	1244.57	(1)$^+$	272.68	(2,3)$^+$	
974.2 *4*	0.66 *12*	1244.57	(1)$^+$	270.32	(3)$^+$	
987.4 *4*	1.37 *15*	1388.90	(1$^+$)	401.32	(1,2)$^+$	
990.0 *4*	0.90 *15*	1259.84	(1$^+$)	270.32	(3)$^+$	
1001.0 *4*	0.5 *1*	1000.91	0,1,2	0.0	1$^+$	
1006.2 *4*	0.4 *1*	1259.84	(1$^+$)	253.32	(1)$^+$	
1027.3[g] *5*	0.6 *1*	1216.62	(1$^+$)	188.98	(2)$^+$	E_γ: complex line (1986We01). Iγ=0.6 *1* for a doublet.
1027.3[g] *5*	<0.6	1388.90	(1$^+$)	362.73	(3)$^+$	
1033.6[i] *4*	0.30 *7*	1244.57	(1)$^+$	211.65	(3)$^+$	
1040.0 *3*	1.3 *1*	1040.32	0,1,2	0.0	1$^+$	
1047.1 *3*	3.0 *1*	1216.62	(1$^+$)	169.53	(1)$^+$	
1049.3 *3*	1.48 *8*	1049.23	0,1	0.0	1$^+$	
1055.7 *3*	1.1 *1*	1244.57	(1)$^+$	188.98	(2)$^+$	
1071.0[g@]	≈0.15	1259.84	(1$^+$)	188.98	(2)$^+$	
1071.0[gi]		1433.4	0,1,2	362.73	(3)$^+$	
1075.7[g] *5*	<0.55	1244.57	(1)$^+$	169.53	(1)$^+$	Iγ=0.55 *15* for a doublet.
1075.7[gi] *5*	<0.55	1388.90	(1$^+$)	312.48	(2)$^+$	
1090.2 *2*	2.9 *1*	1259.84	(1$^+$)	169.53	(1)$^+$	

$^{124}_{55}$Cs$_{69}$-10

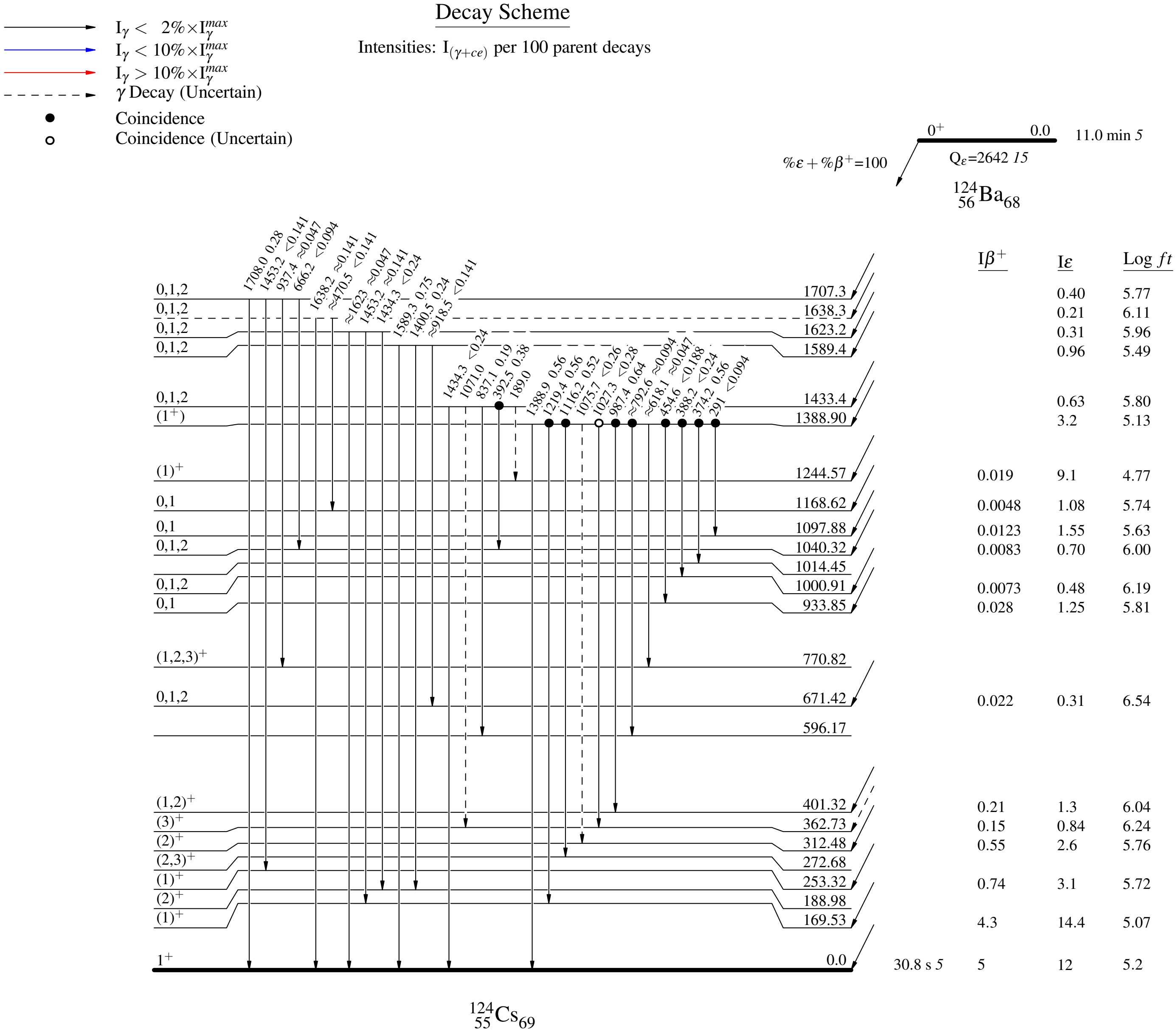
^{124}Ba ε decay 1986We01 (continued)

γ(^{124}Cs) (continued)

E_γ [†]	I_γ [†‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
1097.9 3	1.8 1	1097.88	0,1	0.0	1^+	
1116.2 4	1.0 1	1388.90	(1^+)	272.68	$(2,3)^+$	
1131.9 4	≈0.3[b]	1131.93	1	0.0	1^+	
1141.6[@i]	≈0.25	1141.58	0,1,2	0.0	1^+	
1168.8 4	0.50 5	1168.62	0,1	0.0	1^+	
1216.7 2	17.0 2	1216.62	(1^+)	0.0	1^+	
1219.4 4	1.1 1	1388.90	(1^+)	169.53	$(1)^+$	
1244.2[@]	≈0.2	1244.57	$(1)^+$	0.0	1^+	
1259.7 4	1.4 1	1259.84	(1^+)	0.0	1^+	
1388.9 4	1.1 1	1388.90	(1^+)	0.0	1^+	
1400.5 5	0.4 1	1589.4	0,1,2	188.98	$(2)^+$	
1434.3[g] 5	<0.5	1433.4	0,1,2	0.0	1^+	Iγ=0.5 1 for a doublet.
1434.3[g] 5	<0.5	1623.2	0,1,2	188.98	$(2)^+$	
1453.2[g@]	≈0.3	1623.2	0,1,2	169.53	$(1)^+$	
1453.2[g@]	<0.3	1707.3	0,1,2	253.32	$(1)^+$	I_γ: much less than 0.3.
1589.3 4	1.5 1	1589.4	0,1,2	0.0	1^+	
≈1623[@]	≈0.1	1623.2	0,1,2	0.0	1^+	
1638.2[@]	≈0.3	1638.3?	0,1,2	0.0	1^+	
1708.0 10	0.5 1	1707.3	0,1,2	0.0	1^+	

[†] From 1986We01.
[‡] Relative to I(354γ in ^{124}Xe from ^{124}Cs decay)=100. For doublets or triplets, intensity of each component is from authors′ drawing. Uncertainty was not assigned to these components by authors.
[#] A doublet in authors′ table but a triplet in their drawing.
[@] Very weak line identified from coin.
[&] A singlet in authors′ table but a doublet in their drawing.
[a] Given in authors′ drawing, but not in their table.
[b] Intensity deduced after subtraction of the one related to ^{124}Cs decay to ^{124}Xe.
[c] From K/L and/or α(K)exp or from α(L)exp in 1986We01.
[d] α(exp) values were given for unresolved electron lines of both 102.6- and 103.16-keV transitions.
[e] For absolute intensity per 100 decays, multiply by 0.47 6.
[f] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
[g] Multiply placed.
[h] Multiply placed with intensity suitably divided.
[i] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

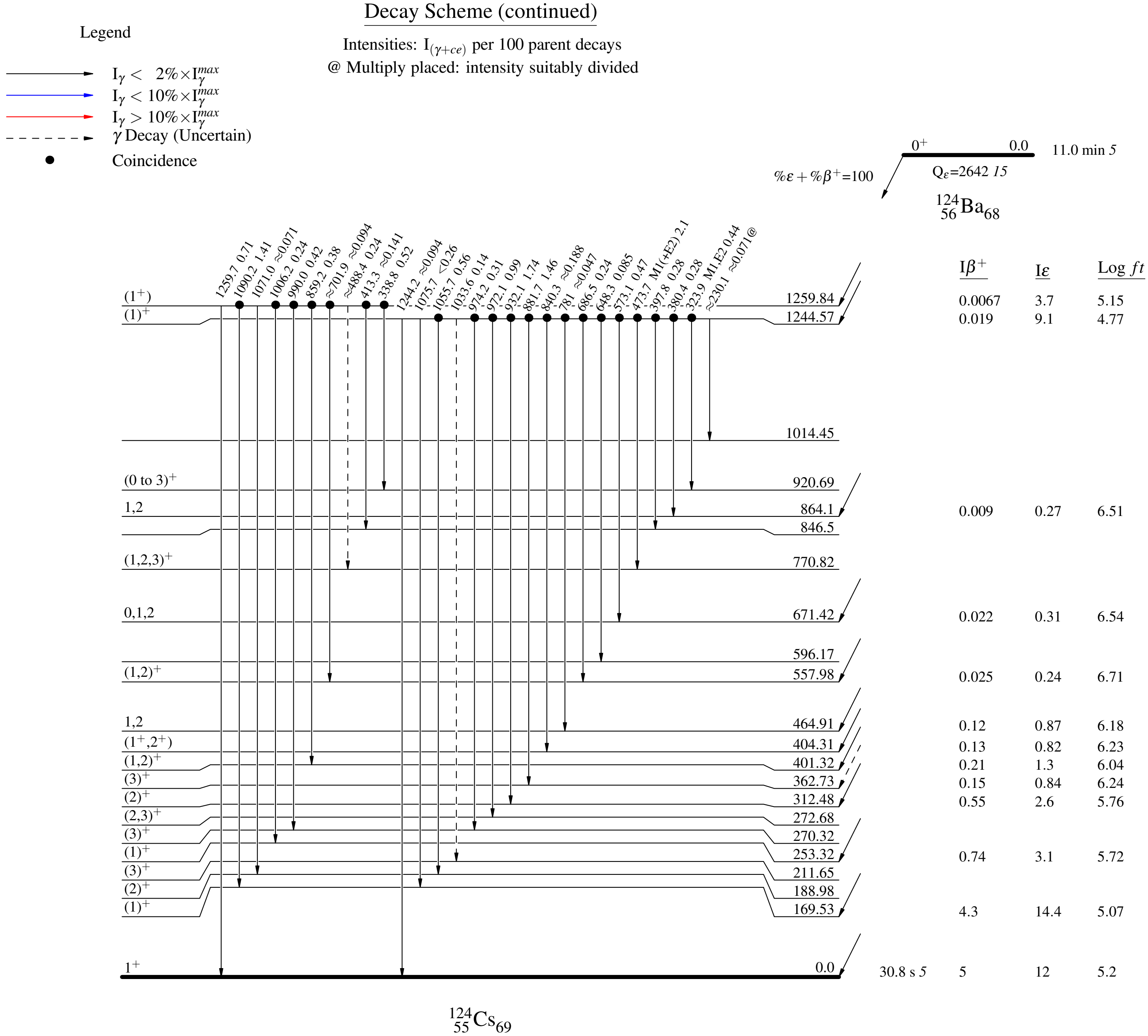
^{124}Ba ε decay 1986We01



^{124}Ba ε decay 1986We01

Decay Scheme (continued)

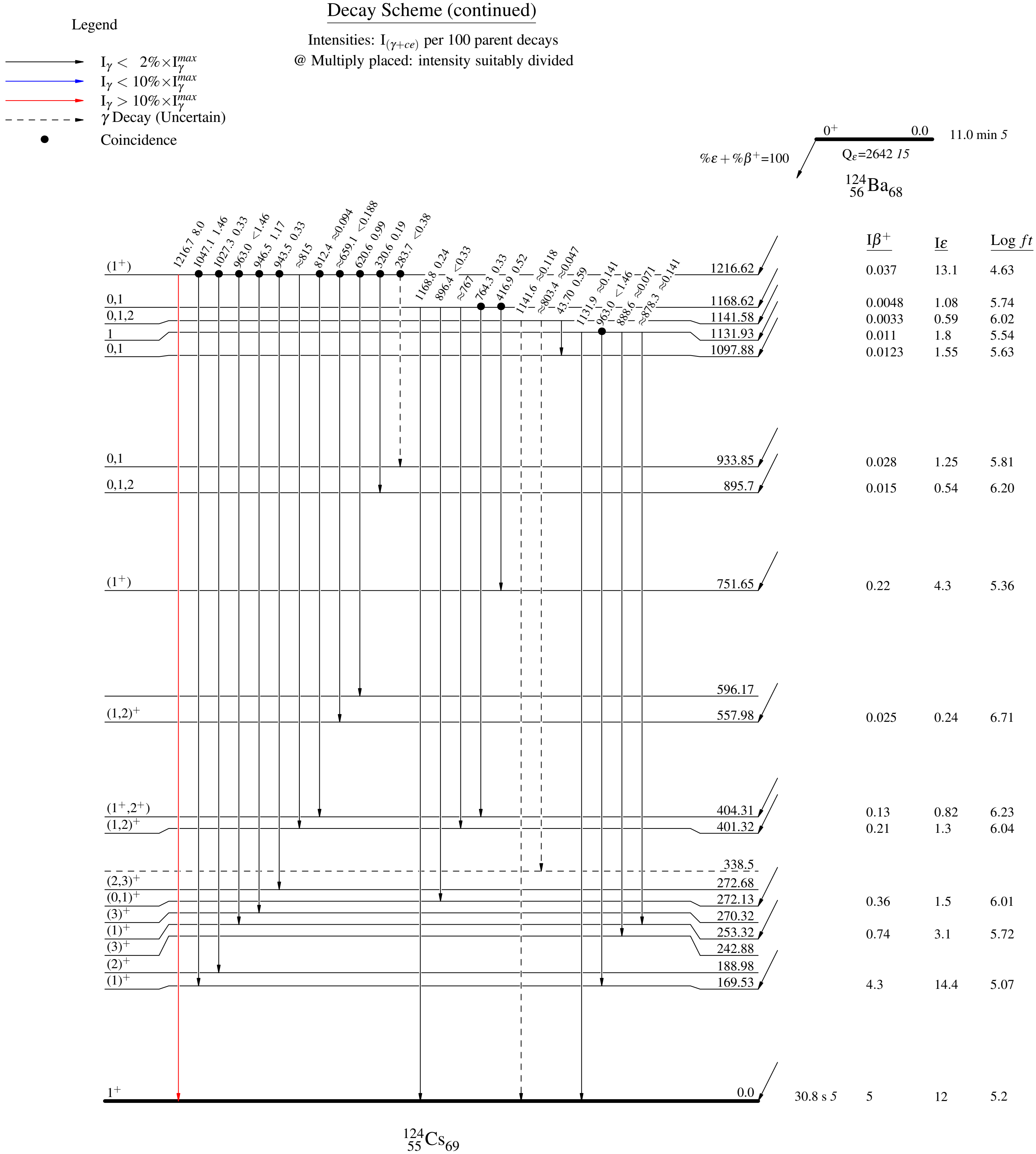
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
@ Multiply placed: intensity suitably divided



^{124}Ba ε decay 1986We01

Decay Scheme (continued)

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



^{124}Ba ε decay 1986We01

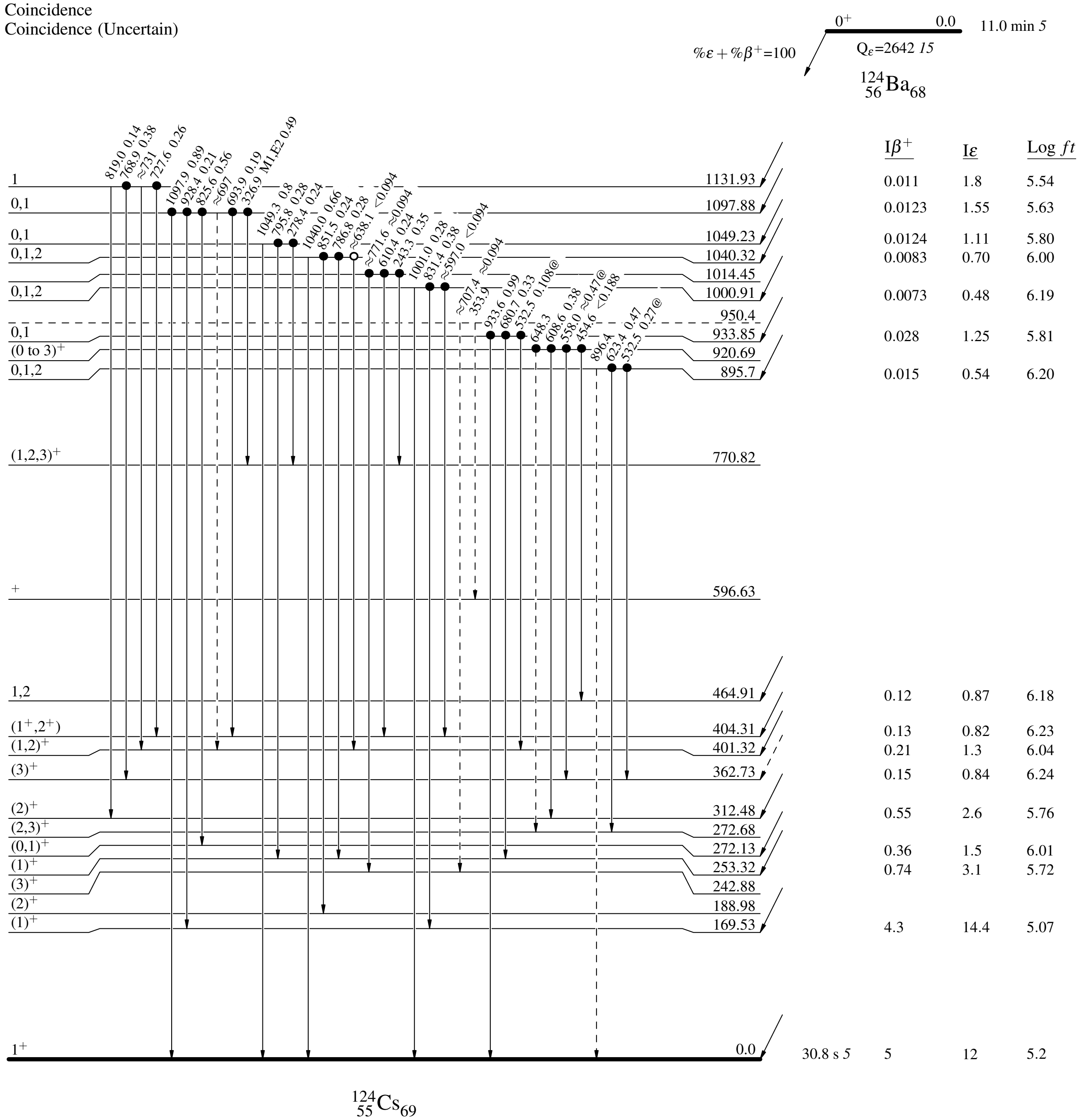
Legend

Decay Scheme (continued)

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

@ Multiply placed: intensity suitably divided

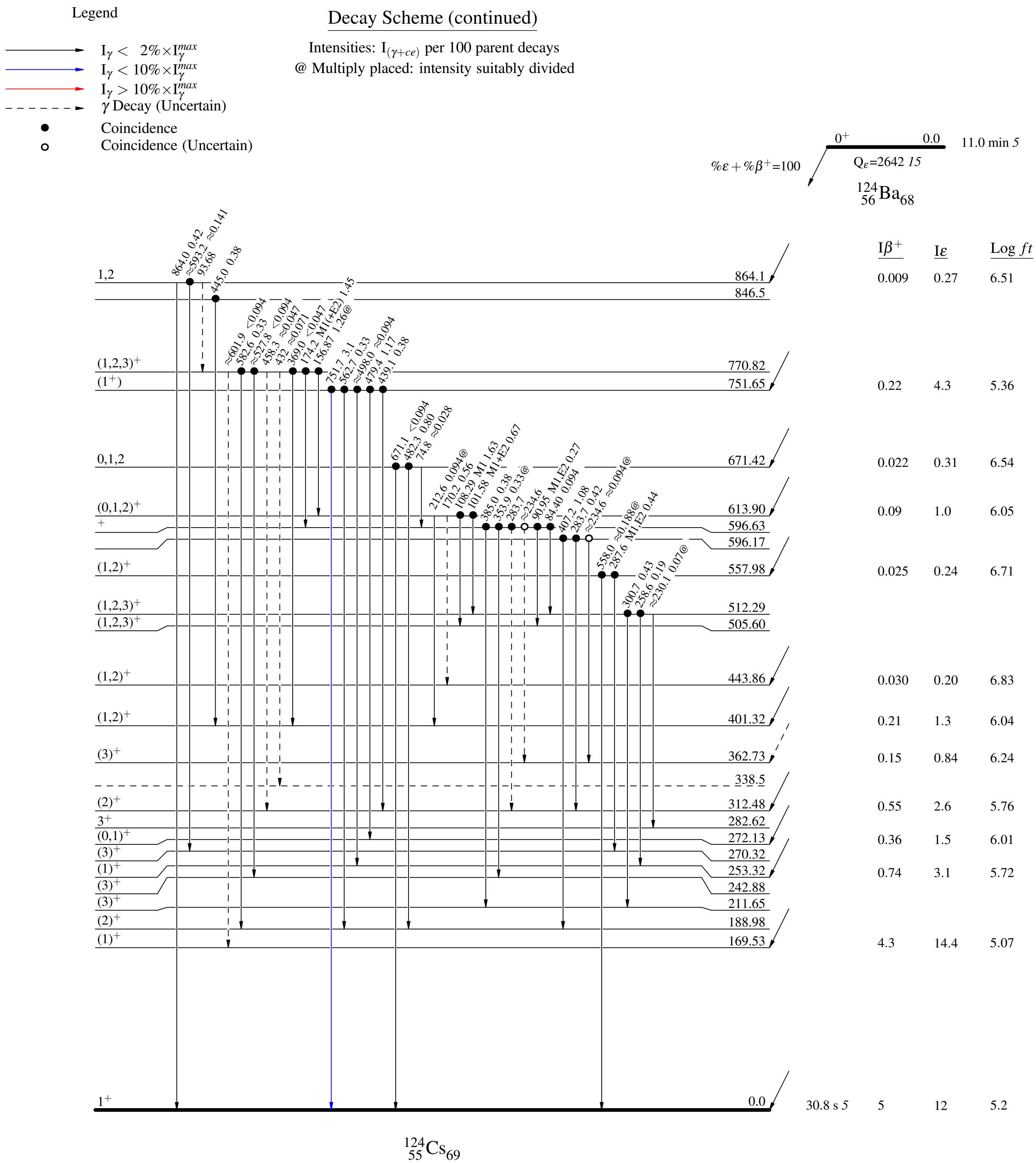
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)
- Coincidence
- Coincidence (Uncertain)



^{124}Ba ε decay 1986We01

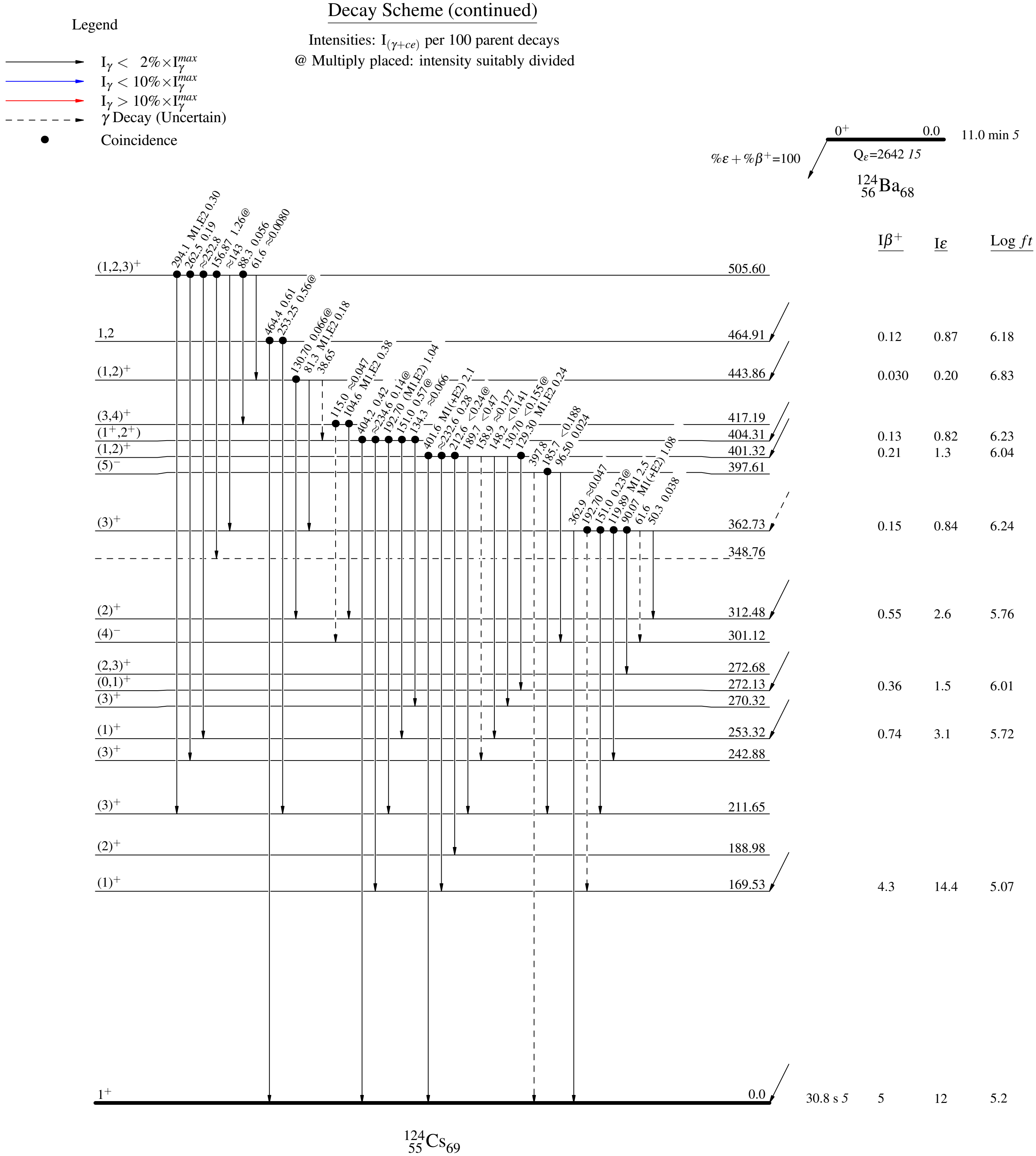
Decay Scheme (continued)

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



^{124}Ba ε decay 1986We01

Decay Scheme (continued)



^{124}Ba ε decay 1986We01

Decay Scheme (continued)

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