^{126}La ε decay (54 s+50 s) 2002Ko02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya	NDS 180, 1 (2022)	1-Oct-2021

Parent: ^{126}La: E=0.0+v; J^π=(4,5); $T_{1/2}$=54 s *2*; Q(ε)=7700 *90*; %ε+%$β^+$ decay=100.0
Parent: ^{126}La: E=0.0+w; J^π=(0^-,1,2^-); $T_{1/2}$<50 s; Q(ε)=7700 *90*; %ε+%$β^+$ decay=100.0
^{126}La(0.0+w)-E: w=210 *410* from Q($β^-$) (1998Ko06).
2002Ko02, 2001As02, 2000ShZV, 1998Ko06, 1997As07, 1997As05, 1996AsZZ: ^{94}Mo(^{36}Ar,3pn) E=195 MeV, enriched target 93.9 %, on-line mass separation; Eγ, Eβ, βγ, γγ, γγ(θ), ce.
1997TaZS: source from ^{116}Sn(^{14}N,4n) E=68 MeV; enriched target 98 %; no chem; γ, β, βγ, γγ.
1992Mo13: Source from Mo(^{35}Cl,2pxn); βγ coin, measure $T_{1/2}$.
1963Ch27:^{115}In(^{16}O,5n) E=94 MeV, ^{121}Sb(^{12}C,7n) E=117 MeV chem; Eγ, γγ.
Others: 1961Sh17, 1963Pr02.

^{126}Ba Levels

E(level)	J^π†	$T_{1/2}$	Comments
0.0	0^+	100 min *2*	
255.96 *6*	2^+	141 ps *14*	$T_{1/2}$: from 1992Mo13; Other: 108 ps *4* (1990OsZY). 1990OsZY is earlier paper of 1992Mo13.
711.03 *7*	4^+‡		
873.55 *7*	2^+‡		
983.41 *10*	0^+‡		
1236.20 *7*	3^+‡		
1295.96 *7*	$2^{(+)}$‡		
1332.46 *9*	6^+‡		
1345.39 *8*	4^+‡		
1717.55 *10*	2^+		
1742.54 *8*	3^-‡		
1753.80 *15*	2^+,3,4^+		
1807.90 *14*	5^+		
1810.11 *19*	2^+,3,4^+		
1876.68 *9*			
1890.20 *12*	$6^{(+)}$		
1936.26 *9*	1,3‡		
1938.84 *9*	5^-‡		
2018.26 *11*	2^+,3,4^+		
2029.78 *12*	$0^{(+)}$‡		
2056.02 *9*	4^-‡		
2100.28 *20*			
2103.43 *12*			
2117.19 *19*			
2179.10 *10*	2^+,3,4^+		
2247.55 *11*	3^-,5^-‡		
2255.12 *12*	5		
2303.2 *4*	7^-		
2378.84 *12*			
2385.94 *12*			
2399.0 *4*	2^+,3,4^+		
2407.93 *21*	$6^{(-)}$		
2459.11 *11*			
2499.13 *9*	3^-,4^+		
2512.26 *11*	4^+,5,6^+		

Continued on next page (footnotes at end of table)

^{126}La ε decay (54 s+50 s) 2002Ko02 (continued)

^{126}Ba Levels (continued)

E(level)	Jπ†	E(level)	Jπ†	E(level)	Jπ†	E(level)	Jπ†
2566.31 *13*	$4^{(+)}$,5,6^+	2684.31 *9*	(4)	2872.06 *12*	2,3,4	3402.9 *5*	2^+,3,4^+
2576.77 *10*	3,4	2716.21 *11*	4^+,5,6^+	2953.67 *9*	2^+,3,4^+	3484.7 *7*	2^+,3,4^+
2605.52 *10*		2732.55 *10*	3^-,4,5^+	3107.9 *4*	2^+,3,4^+	3703.70 *18*	2^+,3,4^+
2657.39 *12*	2^+,3,4^+	2748.57 *10*	$4^{(+)}$,5,6^+	3185.6 *3*	2^+,3,4^+	3758.7 *4*	

† From Adopted Levels except where noted otherwise.
‡ From γγ(θ) and α(K)exp in 2002Ko02.

^{126}La ε decay (54 s+50 s) 2002Ko02 (continued)

γ(^{126}Ba)

α(K)exp: Normalization is made assuming a theoretical E2 value of of 0.0605 for the 255.9K.

A_2 and A_4 values from directional correlation experiment (2002Ko02)

initial	cascade	spin sequence	A_2	A_4
711	455-256	4 - 2 - 0	+0.094 *3*	-0.006 *5*
874	618-256	2 - 2 - 0	-0.120 *10*	+0.341 *18*
983	727-256	0 - 2 - 0	+0.33 *3*	+1.21 *6*
1236	980-256	3 - 2 - 0	-0.055 *10*	-0.100 *18*
1236	525-(455)-256	3 - 4 - 2 - 0	-0.16 *4*	-0.01 *8*
1296	1040-256	2 - 2 - 0	-0.32 *4*	+0.27 *6*
1332	621-(455)-256	6 - 4 - 2 - 0	+0.103 *11*	+0.041 *20*
1345	634-(455)-256	4 - 4 - 2 - 0	-0.151 *14*	+0.100 *24*
1742	1031-(455)-256	3 - 4 - 2 - 0	-0.140 *16*	+0.02 *3*
1742	1487-256	3 - 2 - 0	-0.066 *10*	-0.007 *17*
1877	1621-256		+0.28 *6*	+0.07 *11*
1936	1680-256	(1,3) - 2 - 0	-0.41 *7*	-0.01 *11*
1939	1228-455	5 - 4 - 2	-0.080 *11*	+0.020 *20*
1939	606-(621-455)-256	5 - 6 - 4 - 2 - 0	-0.12 *3*	-0.05 *5*
2030	1774-256	0 - 2 - 0	+0.30 *3*	+1.06 *6*
2056	313-1487	4 - 3 - 2	+0.323 *21*	+0.08 *4*
2056	1345-(455)-256	4 - 4 - 2 - 0	+0.224 *16*	-0.01 *3*
2247	1537-(455)-256	(3,5) - 4 - 2 - 0	-0.114 *25*	+0.01 *4*
2459	520-1228		-0.14 *3*	+0.05 *5*
2499	1263-(980)-256		+0.08 *5*	+0.21 *9*
2512	1801-(455)-256		-0.07 *3*	-0.07 *6*
2657	2401-256		-0.02 *4*	-0.00 *6*
2716	2005-(455)-256		-0.101 *20*	-0.04 *3*

E_γ[†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[a]	α[c]	Comments
117.0[‡] *5*	0.22[#] *4*	2056.02	4^-	1938.84	5^-				
255.93 *9*	100	255.96	2^+	0.0	0^+	E2		0.0755	α(K)=0.0605 *9*; α(L)=0.01189 *17*; α(M)=0.00252 *4* α(N)=0.000532 *8*; α(O)=7.57×10^{-5} *11*; α(P)=3.35×10^{-6} *5*
312.5[‡] *1*	0.68[#] *11*	1295.96	$2^{(+)}$	983.41	0^+				α(K)exp=0.0250 *23* for 312.5K+313.3K.
313.3[‡] *1*	4.2[#] *4*	2056.02	4^-	1742.54	3^-	M1+E2	−2.0 +*9*−*13*	0.0402 *12*	α(K)=0.0332 *14*; α(L)=0.00555 *24*; α(M)=0.00117 *6*

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^{126}La ε decay (54 s+50 s) 2002Ko02 (continued)

γ(^{126}Ba) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[a]	α[c]	Comments
									α(N)=0.000248 *11*; α(O)=3.61×10^{-5} *11*; α(P)=1.95×10^{-6} *16* α(K)exp=0.0250 *23* for 312.5K+313.3K. δ: from γ(θ) in (HI,xnγ), other: −0.8 *+1−11* or −1.7 *+10−2* (2002Ko02).
316.4 *3*	0.124 *10*	2255.12	5	1938.84	5$^-$				
346.5 *5*	<0.09#	2100.28		1753.80	2$^+$,3,4$^+$				
351.9 *2*	0.214 *10*	2407.93	6$^{(-)}$	2056.02	4$^-$	Q[b]			
362.7 *1*	1.33 *3*	1236.20	3$^+$	873.55	2$^+$	E2(+M1)		0.0273 *24*	α(K)=0.0231 *25*; α(L)=0.00339 *9*; α(M)=0.000704 *25* α(N)=0.000151 *5*; α(O)=2.25×10^{-5} *4*; α(P)=1.43×10^{-6} *23* α(K)exp=0.0143 *26*.
397.0‡ *5*	<0.02#	1742.54	3$^-$	1345.39	4$^+$				
408.4 *5*	0.18# *8*	1753.80	2$^+$,3,4$^+$	1345.39	4$^+$				
422.4 *5*	0.35# *9*	1295.96	2$^{(+)}$	873.55	2$^+$				
455.0 *1*	56.8# *8*	711.03	4$^+$	255.96	2$^+$	E2		0.01283	α(K)=0.01074 *15*; α(L)=0.001663 *24*; α(M)=0.000347 *5* α(N)=7.40×10^{-5} *11*; α(O)=1.092×10^{-5} *16*; α(P)=6.40×10^{-7} *9* α(K)exp=0.01024 *17*.
457.8‡ *3*	0.48# *10*	1753.80	2$^+$,3,4$^+$	1295.96	2$^{(+)}$				
462.5‡ *3*	0.088# *16*	1807.90	5$^+$	1345.39	4$^+$				
469.2‡ *5*	0.23# *7*	2407.93	6$^{(-)}$	1938.84	5$^-$				
471.8 *1*	3.73 *7*	1345.39	4$^+$	873.55	2$^+$	E2		0.01158	α(K)=0.00971 *14*; α(L)=0.001487 *21*; α(M)=0.000310 *5* α(N)=6.62×10^{-5} *10*; α(O)=9.78×10^{-6} *14*; α(P)=5.81×10^{-7} *9* α(K)exp=0.0096 *9*.
475.3 *5*	0.089 *12*	1807.90	5$^+$	1332.46	6$^+$				
505.1‡ *2*	1.9 *3*	2247.55	3$^-$,5$^-$	1742.54	3$^-$	E2(+M1)		0.0112 *17*	α(K)=0.0096 *15*; α(L)=0.00132 *11*; α(M)=0.000272 *21* α(N)=5.8×10^{-5} *5*; α(O)=8.8×10^{-6} *9*; α(P)=6.0×10^{-7} *12* α(K)exp=0.0063 *11*.
517.6‡ *2*	0.25# *7*	1753.80	2$^+$,3,4$^+$	1236.20	3$^+$				
520.3‡ *2*	2.1# *4*	2459.11		1938.84	5$^-$				α(K)exp=0.0082 *15* for 520.3K+520.7K.
520.7‡ *3*	0.19# *5*	2576.77	3,4	2056.02	4$^-$				α(K)exp=0.0082 *15* for 520.3K+520.7K.
525.2 *1*	1.053 *23*	1236.20	3$^+$	711.03	4$^+$	M1+E2	−1.7 *2*	0.0095 *2*	α=0.0095 *2*; α(K)=0.0080 *2*; α(L)=0.00114 *1* α(K)exp=0.0060 *23*. δ: from γ(θ) in (HI,xnγ), other: +0.04 *12* or +5 *+100−3* (2002Ko02).
544.8 *1*	0.70# *20*	1890.20	6$^{(+)}$	1345.39	4$^+$	Q[b]		0.00788	α=0.00788; α(K)=0.00659 *20*; α(L)=0.00097 *3* α(K)exp<0.0058. Authors assigned multipolarity of E2, but this assignment is not consitent with α(K)(E2)=0.00659.
x554.3‡ *5*	0.15# *7*								

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^{126}La ε decay (54 s+50 s) 2002Ko02 (continued)

γ(^{126}Ba) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[a]	α[c]	Comments
557.8[‡] *5*	0.22[#] *5*	1890.20	$6^{(+)}$	1332.46	6^+	(M1+E2)[b]	+2.8 *+24−9*		δ: from (HI,xnγ).
560.2[‡] *3*	0.10[#] *5*	2499.13	$3^-,4^+$	1938.84	5^-				
571.7 *2*	1.10[#] *11*	1807.90	5^+	1236.20	3^+	Q[b]			α(K)exp=0.0131 *18* for 571.7K+573.5K+573.7K.
573.5[‡] *5*	0.55[#] *9*	2512.26	$4^+,5,6^+$	1938.84	5^-				α(K)exp=0.0131 *18* for 571.7K+573.5K+573.7K.
573.7[‡] *5*	0.82[#] *11*	1810.11	$2^+,3,4^+$	1236.20	3^+				α(K)exp=0.0131 *18* for 571.7K+573.5K+573.7K.
584.9[‡] *2*	0.43[#] *10*	1295.96	$2^{(+)}$	711.03	4^+	(E2)		0.00653	α=0.00653; α(K)=0.00548 *17*; α(L)=0.00079 *2* α(K)exp=0.011 *8*.
606.4 *1*	1.83 *4*	1938.84	5^-	1332.46	6^+	E1		0.00212	α=0.00212; α(K)=0.00182 *6*; α(L)=0.00023 *1* α(K)exp<0.0017.
617.5 *1*	7.20 *10*	873.55	2^+	255.96	2^+	M1+E2	+5 *+2−1*	0.00577 *5*	α=0.00577 *5*; α(K)=0.00485 *5*; α(L)=0.00069 α(K)exp=0.00431 *12*. δ: from γ(θ) in (HI,xnγ), other: +18 *+10−5* in ε decay (2002Ko02).
621.4 *1*	5.63 *9*	1332.46	6^+	711.03	4^+	E2		0.00559	α=0.00559; α(K)=0.00470 *14*; α(L)=0.00067 *2* α(K)exp=0.00462 *13*.
627.7[‡] *5*	0.57[#] *12*	2566.31	$4^{(+)},5,6^+$	1938.84	5^-				α(K)exp=0.0075 *11* for 627.7K+628.2K.
628.2[‡] *1*	1.8[#] *3*	2684.31	(4)	2056.02	4^-				α(K)exp=0.0075 *11* for 627.7K+628.2K.
[x]631.5 *5*	0.123 *21*								
634.3 *1*	4.58 *7*	1345.39	4^+	711.03	4^+	M1+E2	+1.4 *+80−3*	0.0060 *7*	α=0.0060 *7*; α(K)=0.0051 *7*; α(L)=0.00069 *6* α(K)exp=0.00457 *25*.
[x]637.2[‡] *5*	0.21[#] *9*								
640.5 *1*	0.382 *14*	1876.68		1236.20	3^+				
672.8 *3*	0.062 *10*	2018.26	$2^+,3,4^+$	1345.39	4^+				
676.3[‡] *5*	0.41[#] *9*	2566.31	$4^{(+)},5,6^+$	1890.20	$6^{(+)}$				
676.4[‡] *5*	0.50[#] *9*	2732.55	$3^-,4,5^+$	2056.02	4^-				
700.0[‡] *3*	0.48[#] *14*	1936.26	1,3	1236.20	3^+				
727.4 *1*	2.37 *4*	983.41	0^+	255.96	2^+	E2		0.00378	α=0.00378; α(K)=0.00319 *10*; α(L)=0.00044 *1* α(K)exp=0.0039 *24*.
745.5 *1*	0.26[#] *6*	2684.31	(4)	1938.84	5^-				
756.6[‡] *3*	1.02[#] *21*	2499.13	$3^-,4^+$	1742.54	3^-				
757.9[‡] *5*	0.22[#] *5*	2103.43		1345.39	4^+				
771.8 *2*	0.380 *12*	2117.19		1345.39	4^+				
774.6 *5*	0.192 *7*	2953.67	$2^+,3,4^+$	2179.10	$2^+,3,4^+$				
793.7 *1*	0.312 *17*	2732.55	$3^-,4,5^+$	1938.84	5^-				
809.7 *1*	0.569[#] *13*	2748.57	$4^{(+)},5,6^+$	1938.84	5^-				
820.0 *2*	0.340 *14*	2056.02	4^-	1236.20	3^+				
834.2 *1*	0.359 *16*	2576.77	3,4	1742.54	3^-				
858.3 *3*	0.422 *17*	2748.57	$4^{(+)},5,6^+$	1890.20	$6^{(+)}$				
873.5 *1*	4.60 *10*	873.55	2^+	0.0	0^+	E2		0.00246	α=0.00246; α(K)=0.00209 *7*; α(L)=0.00028 *1* α(K)exp=0.0020 *12*.

^{126}La ε decay (54 s+50 s) 2002Ko02 (continued)

γ(^{126}Ba) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[a]	α[c]	Comments
876.3[‡] *5*	0.21 *4*	2684.31	(4)	1807.90	5^+				
880.3[‡] *5*	1.18[#] *14*	1753.80	2^+,$3,4^+$	873.55	2^+				
880.8[‡] *5*	0.57[#] *8*	2117.19		1236.20	3^+				
902.1 *2*	0.264 *20*	2247.55	3^-,5^-	1345.39	4^+				
909.7 *1*	0.97 *6*	2255.12	5	1345.39	4^+	D[b]			
922.8[‡] *5*	0.059[#] *16*	2255.12	5	1332.46	6^+				
936.6[‡] *5*	0.127[#] *23*	1810.11	2^+,$3,4^+$	873.55	2^+				
941.8 *2*	0.223 *9*	2684.31	(4)	1742.54	3^-				
970.7 *3*	0.16 *5*	2303.2	7^-	1332.46	6^+	E1[b]			
980.2 *1*	8.75 *12*	1236.20	3^+	255.96	2^+	M1+E2	+5.5 *+11−9*	0.00193 *1*	α=0.00193 *1*; α(K)=0.00164 *1*; α(L)=0.00022 α(K)exp=0.0023 *6*.
1003.1 *1*	0.600 *16*	1876.68		873.55	2^+				
1006.6 *1*	0.218 *9*	1717.55	2^+	711.03	4^+				
1031.4 *1*	5.11 *8*	1742.54	3^-	711.03	4^+	E1		0.00072	α=0.00072; α(K)=0.00062 *2* α(K)exp<0.0006.
1040.0 *1*	1.79 *6*	1295.96	$2^{(+)}$	255.96	2^+	(M1+E2)	+1.9 *+11−9*	0.00182 *19*	α=0.00182 *19*; α(K)=0.00155 *16*; α(L)=0.00020 *2*
1042.8[‡] *3*	0.301 *10*	1753.80	2^+,$3,4^+$	711.03	4^+				
1062.6 *1*	0.36[#] *10*	1936.26	1,3	873.55	2^+				
[x]1082.6 *10*	0.20 *4*								
1089.5 *1*	1.93 *4*	1345.39	4^+	255.96	2^+	Q[b]			
1096.9 *2*	1.1[#] *4*	1807.90	5^+	711.03	4^+	D[b]			
1099.1[‡] *2*	0.6[#] *4*	1810.11	2^+,$3,4^+$	711.03	4^+				
1126.5[‡] *2*	0.205 *10*	2459.11		1332.46	6^+				
1129.5 *1*	0.791 *23*	2872.06	2,3,4	1742.54	3^-				
[x]1136.5[‡] *2*	0.110[@] *13*								
[x]1138.6[‡‡] *2*	0.110[@] *13*								
1144.6[‡] *3*	0.039[#] *15*	2018.26	2^+,$3,4^+$	873.55	2^+				
1166.9 *2*	0.271 *10*	2512.26	4^+,$5,6^+$	1345.39	4^+				
1179.8 *3*	0.12[#] *4*	2512.26	4^+,$5,6^+$	1332.46	6^+				
[x]1189.3 *3*	0.149 *22*								
1203.2 *1*	0.74 *5*	2499.13	3^-,4^+	1295.96	$2^{(+)}$				
1211.2 *1*	1.03 *5*	2953.67	2^+,$3,4^+$	1742.54	3^-				
[x]1218.0 *3*	0.052 *17*								
1220.9 *1*	0.944 *19*	2566.31	$4^{(+)}$,$5,6^+$	1345.39	4^+				
1227.8 *1*	8.9[#] *11*	1938.84	5^-	711.03	4^+	E1[b]		0.00053	α=0.00053; α(K)=0.00045 *1*
1231.3[‡] *5*	0.18[#] *4*	2576.77	3,4	1345.39	4^+				
1262.9 *1*	1.03[#] *15*	2499.13	3^-,4^+	1236.20	3^+				
[x]1287.0 *7*	0.25 *4*								

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^{126}La ε decay (54 s+50 s) 2002Ko02 (continued)

$\gamma(^{126}Ba)$ (continued)

E_γ[†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
1296.0 *1*	1.028 *20*	1295.96	$2^{(+)}$	0.0	0^+		
x1299.3[‡] *3*	0.094 *10*						
1305.5[‡] *5*	0.27[#] *5*	2179.10	$2^+,3,4^+$	873.55	2^+		
1307.1[‡] *5*	0.21[#] *4*	2018.26	$2^+,3,4^+$	711.03	4^+		
1340.6 *1*	1.19[#] *16*	2576.77	3,4	1236.20	3^+		
1345.0 *1*	5.36 *9*	2056.02	4^-	711.03	4^+	D	
1383.7 *1*	0.646 *17*	2716.21	$4^+,5,6^+$	1332.46	6^+		
1387.2 *5*	0.330 *16*	2732.55	$3^-,4,5^+$	1345.39	4^+		
1392.4 *1*	0.335 *11*	2103.43		711.03	4^+		
1403.2 *1*	0.655 *18*	2748.57	$4^{(+)},5,6^+$	1345.39	4^+		
1406.3 *5*	0.257 *10*	2117.19		711.03	4^+		
1448.1 *1*	0.943 *17*	2684.31	(4)	1236.20	3^+		
1461.5 *1*	0.633 *15*	1717.55	2^+	255.96	2^+		
1468.1[‡] *1*	0.282 *21*	2179.10	$2^+,3,4^+$	711.03	4^+		
x1477.5 *10*	0.132 *12*						
1486.6 *1*	8.46 *15*	1742.54	3^-	255.96	2^+	D	
1496.4 *2*	0.58 *4*	2732.55	$3^-,4,5^+$	1236.20	3^+		
x1514.7 *5*	0.184 *25*						
1536.5 *1*	3.06 *10*	2247.55	$3^-,5^-$	711.03	4^+		
x1554.0 *5*	0.139 *12*						
x1563.6[‡] *2*	0.274 *20*						
1620.8 *2*	0.95 *5*	1876.68		255.96	2^+		
1625.6 *3*	0.204 *13*	2499.13	$3^-,4^+$	873.55	2^+		
1635.9 *2*	0.228 *13*	2872.06	2,3,4	1236.20	3^+		
1657.6 *3*	0.187 *15*	2953.67	$2^+,3,4^+$	1295.96	$2^{(+)}$		
1667.8 *1*	1.02 *4*	2378.84		711.03	4^+		
1674.9 *1*	0.339 *23*	2385.94		711.03	4^+		
1680.4 *1*	0.80 *5*	1936.26	1,3	255.96	2^+		δ: +0.16 +*23*−*21* if J=1 or <−0.15 if J=3 (2002Ko02).
1687.9[‡] *5*	0.108 *20*	2399.0	$2^+,3,4^+$	711.03	4^+		
1702.7 *3*	0.163 *13*	3758.7		2056.02	4^-		
1717.4 *5*	0.346 *18*	1717.55	2^+	0.0	0^+		
1748.1 *1*	1.71 *6*	2459.11		711.03	4^+		
1762.3 *1*	0.82 *3*	2018.26	$2^+,3,4^+$	255.96	2^+		
1773.8 *1*	1.20 *4*	2029.78	$0^{(+)}$	255.96	2^+	Q	
1788.1 *1*	0.383 *21*	2499.13	$3^-,4^+$	711.03	4^+		
1801.2 *1*	2.14 *7*	2512.26	$4^+,5,6^+$	711.03	4^+		
1844.3 *2*	0.419 *16*	2100.28		255.96	2^+		
1865.9 *3*	0.243 *16*	2576.77	3,4	711.03	4^+		
x1877.6[‡] *5*	0.14[#] *7*						
x1889.3[‡] *5*	0.13[#] *6*						
1894.4 *1*	0.75 *3*	2605.52		711.03	4^+		

$^{126}_{56}Ba_{70}$-7

^{126}La ε decay (54 s+50 s) 2002Ko02 (continued)

$\gamma(^{126}Ba)$ (continued)

E_γ †	I_γ	E_i(level)	J_i^π	E_f	J_f^π
x1910.6 5	0.100 11				
x1915.5 5	0.100 10				
1923.1 1	0.85 3	2179.10	2^+,3,4$^+$	255.96	2^+
1946.3 3	0.269 15	2657.39	2^+,3,4$^+$	711.03	4^+
1973.3 1	0.88 3	2684.31	(4)	711.03	4^+
2005.2 1	2.80 9	2716.21	4^+,5,6$^+$	711.03	4^+
2021.5 1	0.379 17	2732.55	3^-,4,5$^+$	711.03	4^+
2037.6 5	0.232 13	2748.57	$4^{(+)}$,5,6$^+$	711.03	4^+
x2131.3 10	0.35 10				
2143.1‡ 5	0.18# 10	2399.0	2^+,3,4$^+$	255.96	2^+
x2151.3 10	0.18 10				
x2227.3 3	0.131 13				
x2235.9 10	0.24 4				
2242.6 1	0.67 3	2953.67	2^+,3,4$^+$	711.03	4^+
2349.6 1	0.96 4	2605.52		255.96	2^+
x2379.7 5	0.173 15				
2396.8 5	0.20# 10	3107.9	2^+,3,4$^+$	711.03	4^+
2401.4 1	1.61 8	2657.39	2^+,3,4$^+$	255.96	2^+
x2461.1 2	0.339 22				
2474.5 3	0.134 11	3185.6	2^+,3,4$^+$	711.03	4^+
x2480.4‡ 5	0.237& 18				
x2484.2‡ 10	0.237& 18				
2691.9 5	0.200 16	3402.9	2^+,3,4$^+$	711.03	4^+
2697.6 1	0.94 3	2953.67	2^+,3,4$^+$	255.96	2^+
x2728.0‡ 20	0.147 14				
2773.5 10	0.222 16	3484.7	2^+,3,4$^+$	711.03	4^+
2852.0 5	0.186 14	3107.9	2^+,3,4$^+$	255.96	2^+
2929.6 5	0.149 10	3185.6	2^+,3,4$^+$	255.96	2^+
x2984.8 5	0.120 12				
2992.6 3	0.57 17	3703.70	2^+,3,4$^+$	711.03	4^+
x2995.4‡ 5	0.12 4				
x3028.3 5	0.110 11				
3146.8‡ 8	0.177 22	3402.9	2^+,3,4$^+$	255.96	2^+
x3218.6 5	0.131 12				
3228.9 10	0.050 8	3484.7	2^+,3,4$^+$	255.96	2^+
x3442.6‡ 5	0.15 8				
3447.7‡ 2	1.31 5	3703.70	2^+,3,4$^+$	255.96	2^+
x3451.6 5	0.27 14				
x3524.4 5	0.095 12				
x3583.1 10	0.084 13				
x3853.5 10	0.063 11				

† From 2002Ko02.
‡ From coincidence data.
# From singles and coincidence data.
@ sum of 1137+1139 keV γ's.
& sum of 2480+2484 keV γ's.
a From $\gamma\gamma(\theta)$ and α(K)exp in 2002Ko02. The α(K)exp values are normalized to α(K)(255.93γ)=0.0605 (E2).
b From Adopted Levels, gammas.
c 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.
x γ ray not placed in level scheme.

$^{126}_{56}Ba_{70}$-8

^{126}La ε decay (54 s+50 s) 2002Ko02

Decay Scheme

Intensities: Relative I_γ

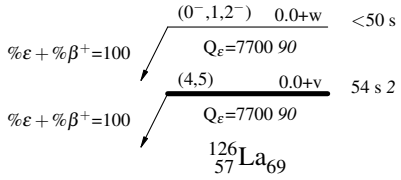
Legend

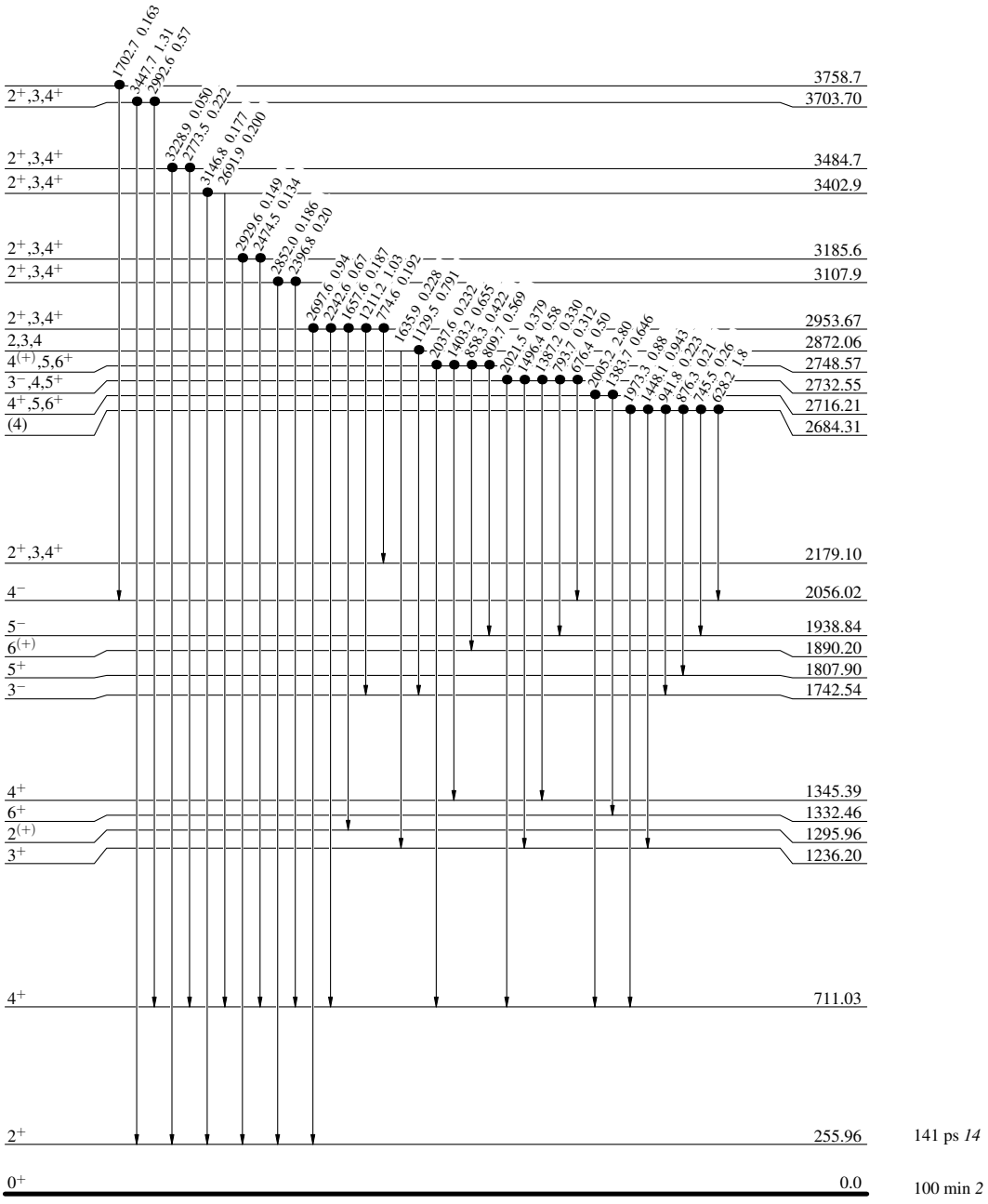
$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$

Coincidence



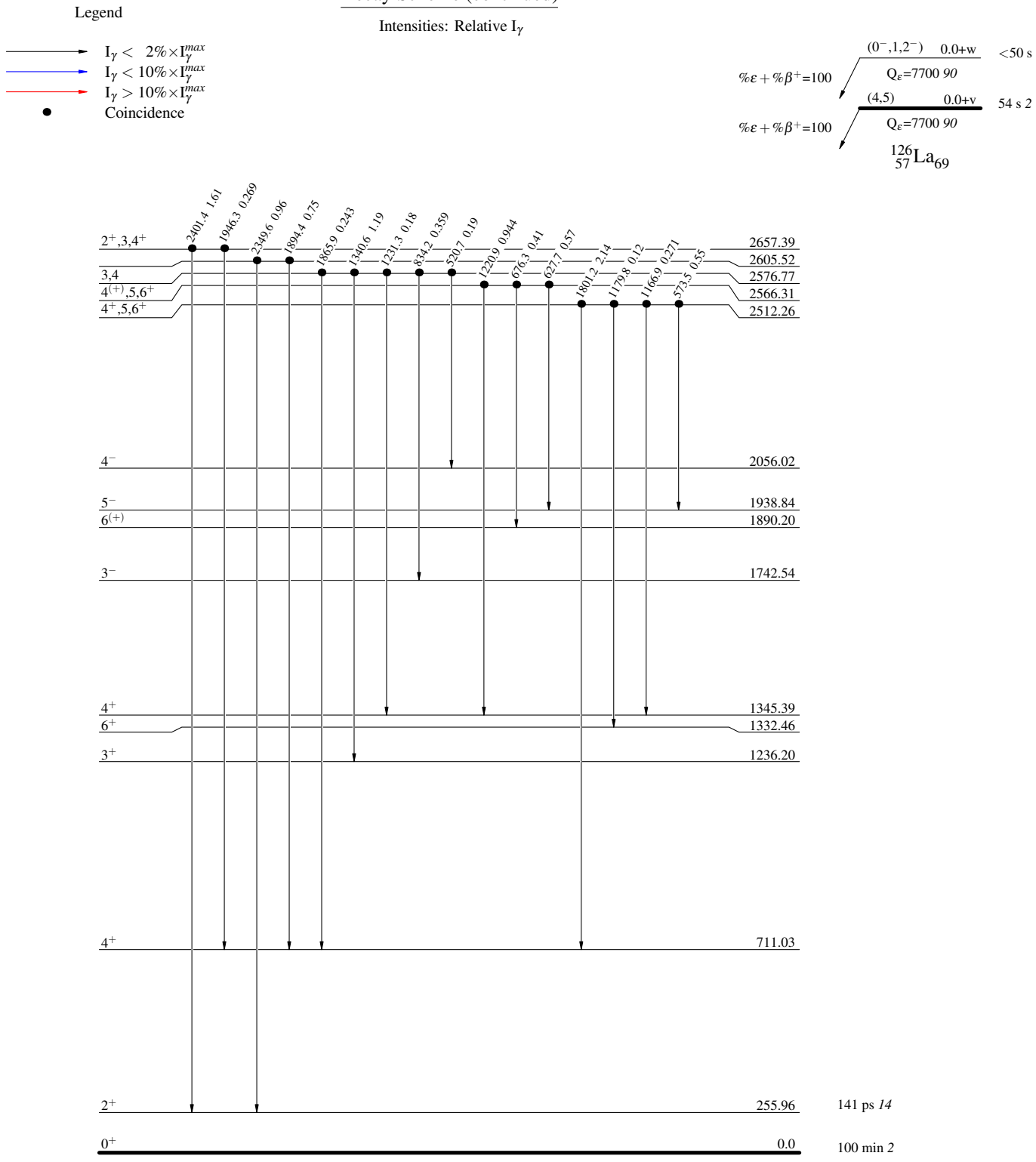


$^{126}_{56}Ba_{70}$

^{126}La ε decay (54 s+50 s) 2002Ko02

Decay Scheme (continued)

Intensities: Relative I_γ

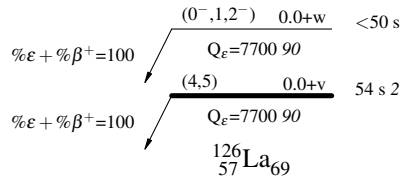


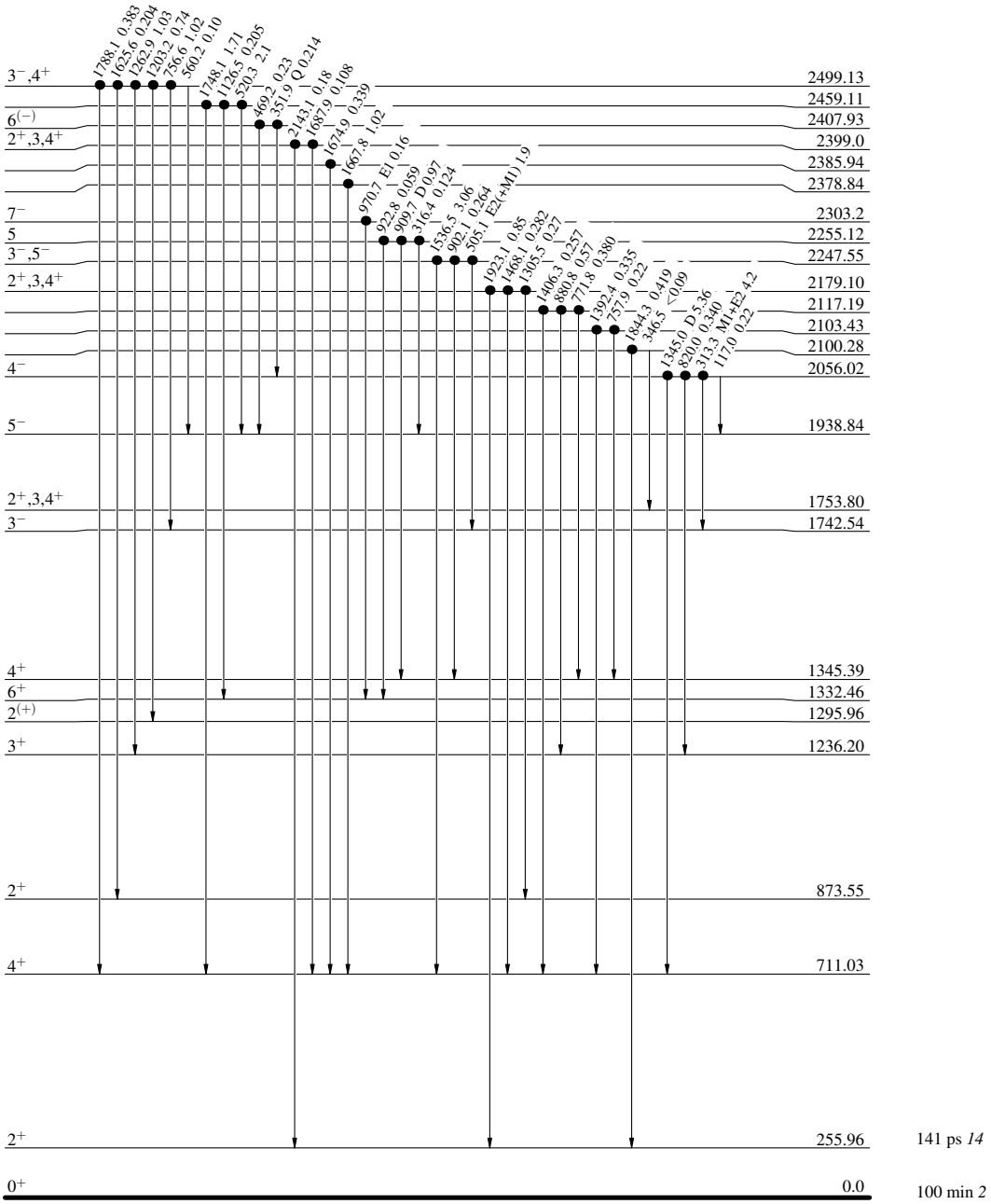
^{126}La ε decay (54 s+50 s) 2002Ko02

Decay Scheme (continued)

Intensities: Relative I_γ

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



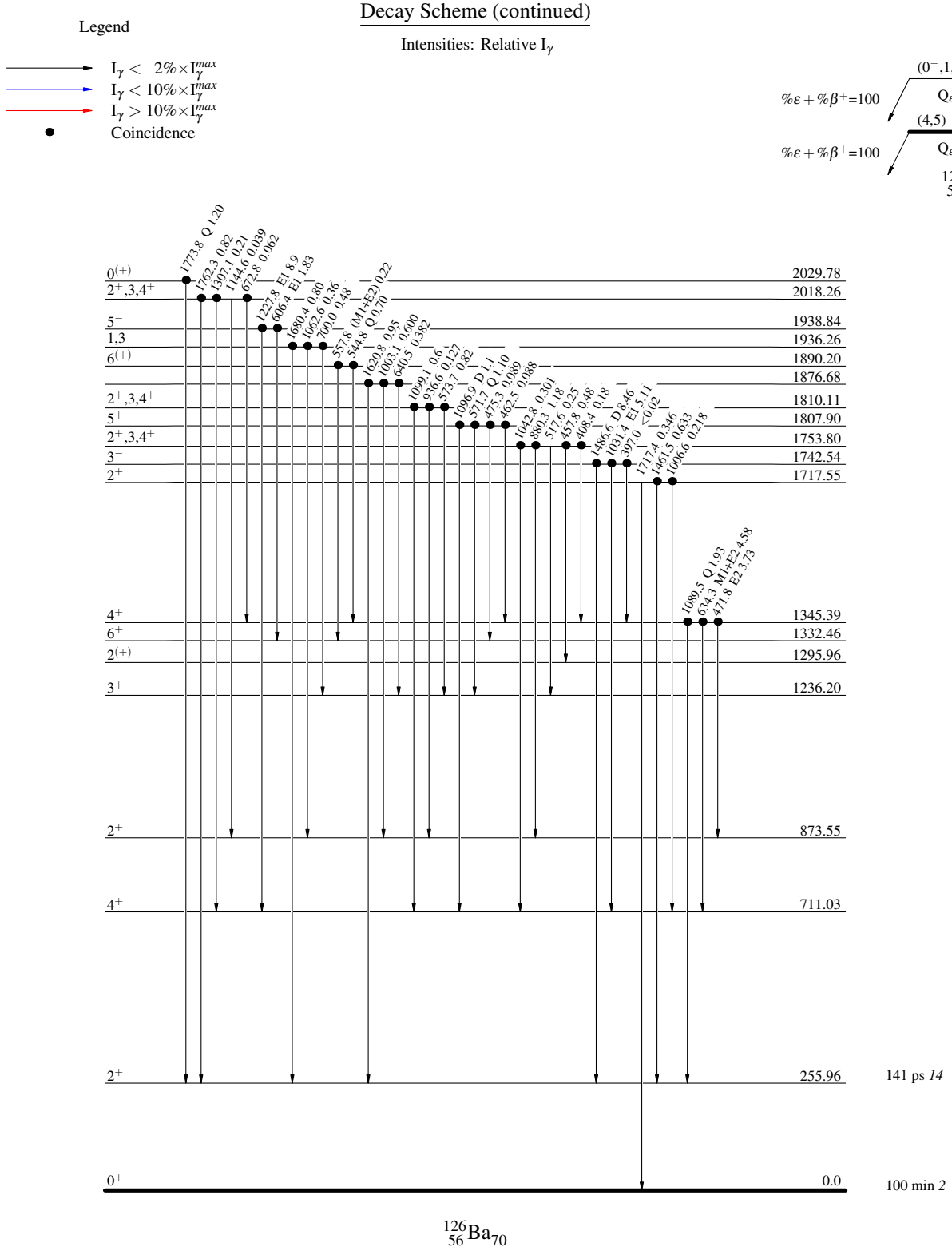


$^{126}_{56}Ba_{70}$

^{126}La ε decay (54 s+50 s) 2002Ko02

Decay Scheme (continued)

Intensities: Relative I_γ



$^{126}_{56}Ba_{70}$

^{126}La ε decay (54 s+50 s) 2002Ko02

Decay Scheme (continued)

Intensities: Relative I_γ