^{120}Cs ε decay (64 s+57 s) 1990MaYX

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	K. Kitao, Y. Tendow and A. Hashizume	NDS 96, 241 (2002)	1-Dec-2001

Parent: ^{120}Cs: E=0.0; $J^\pi=2^{(+)}$; $T_{1/2}$=64 s *3*; Q(ε)=7942 *45*; %ε+%β^+ decay=100.0
Parent: ^{120}Cs: E=0.0+x; $J^\pi=7$; $T_{1/2}$=57 s *6*; Q(ε)=7942 *45*; %ε+%β^+ decay=100.0
1990MaYX: ^{92}Mo(^{32}S,4p) E=175 MeV, on-line mass separation; semi γ, ce; $\gamma\gamma$, (ce)(γ) coin.
1977Ge03: ^{139}La(p,3pxn) E=600 MeV, on-line mass separation; semi γ ce; $\gamma\gamma$, (ce)(γ) coin.
1992Bh02: ^{93}Nb(^{32}S,2p3n) E=165 MeV; Si(Li) with mini-orange magnetic filter, plastic scin ce, β, (ce)(β) coin.
Others: 1976BaXV, 1975We23, 1972Dr06.

^{120}Xe Levels

Decay scheme is that proposed by 1990MaYX. The authors suggest that the measured activity is a mixture of two different isomers which decay with similar half-lives (57 s and 64 s). The 2727 level is separated into two levels based on the results from (HI,xnγ), one decays with 1329γ and 1931γ, and the other with 655γ and 741γ.

E(level)[†]	J^π	$T_{1/2}$	Comments
0.0[‡]	0^+	40 min *1*	
322.60[‡] *4*	2^+		
796.18[‡] *5*	4^+		
876.09[@] *4*	2^+		
908.70[#] *6*	0^+	<6.2 ps	
1271.72[@] *5*	3^+		
1274.43[#] *4*	$(2)^+$		
1397.40[‡] *7*	6^+		
1401.30[@] *5*	4^+		
1623.25 *6*	0^+	83 ps *28*	$T_{1/2}$: from 1996Ma16. Other: 0.60 ns *21* from (β)(ce)(t) (1992Bh02).
1711.74[#] *5*	$(4)^+$		
1725.40 *5*	2^+	0.6 ns *5*	
1745.31 *7*	$^+$		
1767.54 *6*	$(2^+,3,4^+)$		
1816.98 *6*	$(5)^+$		
1924.11 *8*	2^+		
1941.32 *6*	2^+		
1982.49 *11*	$(1,2^+)$		
1985.62 *6*	6^+		
1995.07 *6*	2		
2050.57 *7*	$(2^+,3,4^+)$		
2071.97 *6*	4^+		
2099.24[‡] *9*	8^+		
2165.17 *6*	$(2^+,3,4^+)$		
2186.79 *6*	(2,3,4)		
2236.65 *15*	0^+		
2242.12 *7*			
2272.68 *7*	$(4^-,5^-)$		
2295.10 *9*			
2402.13 *6*	$(1,2)^+$		
2411.0 *10*	0^+		
2448.42 *9*	$(3,4)^+$		
2460.88 *7*	7^+		
2495.71 *10*	(7^-)		

Continued on next page (footnotes at end of table)

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

^{120}Xe Levels (continued)

E(level)†	Jπ	Comments
2536.07 *9*		
2544.70 *11*	(6⁻)	E(level): from (HI,xnγ).
2637.59 *11*	(1,2⁺)	
2653.82 *12*	(8⁺)	
2682.12 *8*		
2721.88 *9*	(3,4,5)⁺	
2727.40 *8*	(4⁺,5,6⁺)	
2727.4 *1*		
2812.67 *8*	(4)	
2830.38& *12*		
2831.40 *12*	7⁻	
2853.98 *6*		E(level): possible doublet of 2853.9 *3* and 2852.8 *3* keV (1990MaYX).
2930.69 *15*	(7⁻)	E(level): from (HI,xnγ).
2966.88 *11*	(8⁻)	
3149.58 *15*		
3357.21 *7*	2⁺	
3470.91 *10*	(2⁺)	
3802.63 *7*	(2⁺)	
4313.11 *9*	2⁺	

† From a least-squares fit to E(γ′s) by the evaluators.
‡ g.s. rotational band.
# Quasi-β band.
@ Quasi-γ band.
& Tentative level depopulating with the 846γ by the evaluators. See comment for the 846 G.

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

$\gamma(^{120}Xe)$

Iγ normalization: cannot be given.
γ′s are from the admixture of two ^{120}Cs isomer decays with similar half-lives (57 s and 64 s).

E_γ[†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[#]	Comments
99.3[ef] *1*	0.042 *6*	2930.69	(7⁻)	2831.40	7⁻			
109.10 *9*	0.058 *7*	2050.57	(2⁺,3,4⁺)	1941.32	2⁺			
[x]125.0 *2*	0.032 *8*							
[x]128.9 *2*	0.014 *4*							
[x]131.7 *2*	0.018 *4*							
136.8 *1*	0.032 *5*	2966.88	(8⁻)	2830.38				
182.7 *1*	0.09 *1*	3149.58		2966.88	(8⁻)			
[x]183.5								E_γ: transition energy, given authors′ α(K)exp table but no γ′s table. α(K)exp=0.079 *11*.
239.2 *1*	0.10 *1*	2966.88	(8⁻)	2727.40	(4⁺,5,6⁺)	M1,E2	0.081 *7*	α(K)=0.068 *4*; α(L)=0.011 *3*; α(M)=0.0022 *6*; α(N+..)=0.00055 *13* α(K)exp=0.067 *9* (1990MaYX).
245.7 *6*	0.008 *5*	2186.79	(2,3,4)	1941.32	2⁺			
273.67[‡] *7*	0.31 *3*	1985.62	6⁺	1711.74	(4)⁺	(E2)	0.0566	α(K)=0.0462 *14*; α(L)=0.00822 *25*; α(M)=0.00169 *5*; α(N+..)=0.00042 *1* E_γ,I_γ: unplaced in 1977Ge03; Iγ=0.36 *1* (1977Ge03). α(K)exp=0.054 *6* (1990MaYX).
[x]286.1 *2*	0.020 *5*							
[x]289.2 *3*	0.014 *5*							
293.5 *3*	0.017 *6*	2536.07		2242.12				
[x]300.2 *1*	0.08 *1*							
312.7 *2*	0.03 *1*	2236.65	0⁺	1924.11	2⁺			
314.2 *3*	0.03 *1*	1711.74	(4)⁺	1397.40	6⁺			
322.54[‡] *6*	100	322.60	2⁺	0.0	0⁺	[E2]	0.0333	α(K)=0.0276 *9*; α(L)=0.00458 *14*; α(M)=0.00094 *3*; α(N+..)=0.00023 *1* K/L=6.1 *7*, M/L=0.25 *5* (1990MaYX).
[x]329.0 *1*	0.035 *6*							
[x]341.37 *8*	0.20 *2*							
346.6 *1*	0.13 *1*	2071.97	4⁺	1725.40	2⁺			
348.78[‡] *7*	0.55 *5*	1623.25	0⁺	1274.43	(2)⁺			E_γ: unplaced in 1977Ge03. α(K)exp=0.095 *33* (1977Ge03), α(K)exp suggests M2.
365.69[‡] *7*	1.2 *1*	1274.43	(2)⁺	908.70	0⁺	(E2)	0.0225	α(K)=0.0187 *6*; α(L)=0.00299 *9*; α(M)=0.00061 *2*; α(N+..)=0.00015 *1* α(K)exp=0.019 *3* (1990MaYX); 0.010 *5* (1977Ge03).
[x]367.2 *2*	0.047 *8*							
371.9 *1*	0.035 *5*	1995.07	2	1623.25	0⁺			
[x]376.4 *2*	0.033 *6*							
395.56[‡] *6*	2.5 *2*	1271.72	3⁺	876.09	2⁺	E2(+M1)	0.0189 *13*	α(K)=0.0161 *13*; α(L)=0.00226 *5*; α(M)=0.00046 *1*;

$^{120}_{54}Xe_{66}$-3

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ[†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ	α[#]	Comments
									α(N+..)=0.00011 α(K)exp=0.015 *1*, K/L=7.5 *12* (1990MaYX); α(K)exp=0.012 *4* (1977Ge03). I_γ: other: 0.31 *3* if I(949γ)=0.86 (1977Ge03).
398.23[‡] *7*	0.64 *6*	1274.43	(2)$^+$	876.09	2$^+$	M1,E2		0.0186 *13*	α(K)=0.0158 *13*; α(L)=0.00222 *4*; α(M)=0.00045 *1*; α(N+..)=0.00011 α(K)exp=0.015 *2*, K/L=6.0 *19* (1990MaYX). I_γ: other: 0.45 *9* if (1274γγ)=0.51 (1977Ge03).
415.60[‡] *9*	0.25 *3*	1816.98	(5)$^+$	1401.30	4$^+$	M1,E2		0.0165 *13*	α(K)=0.0141 *13*; α(L)=0.00196 *1*; α(M)=0.00040 *1*; α(N+..)=9.9×10^{-5} E_γ: unplaced in 1977Ge03. I_γ: other: 0.18 *5* if I(561γ)=1.3 (1977Ge03). α(K)exp=0.0099 *22* (1990MaYX).
419.52 *9*	0.13 *1*	1816.98	(5)$^+$	1397.40	6$^+$				
[x]423.8 *1*	0.043 *6*								E_γ: depopulating the 2495 level in 1990MaYX.
437.13[‡] *7*	0.77 *7*	1711.74	(4)$^+$	1274.43	(2)$^+$	(E2)		0.0132	α(K)=0.0111 *4*; α(L)=0.00167 *5*; α(M)=0.00034 *1* α(K)exp=0.015 *6* (1977Ge03), 0.0090 *11* (1990MaYX).
439.6 *2*	0.11 *3*	1711.74	(4)$^+$	1271.72	3$^+$				
440.4 *3*	0.07 *3*	2165.17	(2$^+$,3,4$^+$)	1725.40	2$^+$				
451.14[‡] *7*	2.0 *2*	1725.40	2$^+$	1274.43	(2)$^+$	M1,E2		0.0133 *13*	α(K)=0.0113 *12*; α(L)=0.00155 *4*; α(M)=0.00031 *1* E_γ: unplaced in 1977Ge03. α(K)exp=0.011 *1* (1990MaYX).
451.8[‡] *1*	<2.2	2853.98		2402.13	(1,2)$^+$				I_γ: given as <2.0 *2* by authors (1990MaYX). 0.76 *9* if Iγ(1453γ)=1.2 (1977Ge03).
453.55[‡] *8*	1.04 *9*	1725.40	2$^+$	1271.72	3$^+$	M1+E2	4.2 *38*	0.0120 *20*	α(K)=0.0101 *20*; α(L)=0.00149 *6*; α(M)=0.00030 *1* α(K)exp=0.011 *1* (1990MaYX). I_γ: other: 1.27 *13* if I(561γ)=2.0 (1977Ge03). δ: from α(K)exp.
455.9 *3*	0.05 *1*	2272.68	(4$^-$,5$^-$)	1816.98	(5)$^+$				
460.4 *2*	0.06 *1*	2402.13	(1,2)$^+$	1941.32	2$^+$				
473.42[‡] *6*	28 *2*	796.18	4$^+$	322.60	2$^+$	E2		0.0105	α(K)=0.0088 *3*; α(L)=0.00130 *4*; α(M)=0.00027 *1* α(K)exp=0.0085 *11*, K/L=6.3 *7* (1990MaYX); α(K)exp=0.0082 *18* (1977Ge03).
475.46[‡] *7*	1.5 *2*	1271.72	3$^+$	796.18	4$^+$				
475.5 *1*	0.4 *1*	2460.88	7$^+$	1985.62	6$^+$				
478.30[‡] *7*	1.4 *1*	1274.43	(2)$^+$	796.18	4$^+$	E2		0.0102	α(K)=0.0086 *3*; α(L)=0.00126 *4*; α(M)=0.00026 *1* E_γ: unplaced in 1977Ge03. α(K)exp=0.0067 *11* (1990MaYX).
[x]492.6 *2*	0.020 *9*								
525.18[‡] *6*	2.8 *3*	1401.30	4$^+$	876.09	2$^+$	E2		0.00792	α=0.00792; α(K)=0.00665 *20*; α(L)=0.00095 *3* α(K)exp=0.0066 *7* (1990MaYX), 0.0073 *19* (1977Ge03). I_γ: other: 3.3 *3* if I(561γ)=4.1 (1977Ge03).

$^{120}_{54}Xe_{66}$-4

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [#]	Comments
[x]538.5 *1*	0.17 *2*							
[x]539.5[a] *5*	0.45 *15*							
545.22[‡] *7*	1.3 *1*	1816.98	$(5)^+$	1271.72	3^+	(E2)	0.00715	α=0.00715; α(K)=0.00601 *18*; α(L)=0.00085 *3* α(K)exp=0.0067 *10*, value includes contribution from annihilation radiation, but any correction is not made (1990MaYX), K/L=5.5 *12* (1990MaYX); α(K)exp=0.010 *4* (1977Ge03).
553.43[‡] *7*	21 *2*	876.09	2^+	322.60	2^+	E2	0.00687	α=0.00687; α(K)=0.00578 *18*; α(L)=0.00082 *3* α(K)exp=0.0053 *5*, K/L=6.5 *9* (1990MaYX); α(K)exp=0.0053 *16* (1977Ge03).
560.87[‡] *7*	0.95 *9*	2272.68	$(4^-,5^-)$	1711.74	$(4)^+$	(E1)	0.00228	α=0.00228; α(K)=0.00196 *6*; α(L)=0.00024 *1* α(K)exp=0.0029 *4* (1990MaYX).
[x]563.2 *4*	0.021 *8*							
583.1 *1*	0.17 *3*	2295.10		1711.74	$(4)^+$			
584.6[‡] *1*	2.1 *2*	1985.62	6^+	1401.30	4^+	E2	0.00593	α=0.00593; α(K)=0.00500 *15*; α(L)=0.00070 *2* α(K)exp=0.0058 *7* (1990MaYX).
586.1[‡] *1*	5.5 *3*	908.70	0^+	322.60	2^+	E2	0.00589	α=0.00589; α(K)=0.00497 *15*; α(L)=0.00069 *2* α(K)exp=0.0050 *5*, K/L=6.1 *10* (1990MaYX).
588.3[‡] *2*	0.9 *1*	1985.62	6^+	1397.40	6^+	M1,E2	0.0067 *9*	α=0.0067 *9*; α(K)=0.0057 *8*; α(L)=0.00075 *7* α(K)exp=0.0064 *11*, K/L=3.5 *10* (1990MaYX).
601.21[‡] *8*	10.1 *9*	1397.40	6^+	796.18	4^+	(E2)	0.00551	α=0.00551; α(K)=0.00465 *14*; α(L)=0.00065 *2* α(K)exp=0.0050 *5*, K/L=6.4 *11* (1990MaYX); α(K)exp=0.0060 *19* (1977Ge03).
605.17[‡] *9*	4.1 *4*	1401.30	4^+	796.18	4^+	M1,E2	0.0063 *9*	α=0.0063 *9*; α(K)=0.0053 *8*; α(L)=0.00070 *7* α(K)exp=0.0058 *6*, K/L=5.2 *7*, M/L=0.24 *5* (1990MaYX); α(K)exp=0.0040 *13* (1977Ge03).
613.2		2236.65	0^+	1623.25	0^+	E0[g]		
[x]615.3 *2*	0.046 *7*							
631.47[‡] *8*	0.33 *3*	2448.42	$(3,4)^+$	1816.98	$(5)^+$	M1,E2	0.0056 *8*	α=0.0056 *8*; α(K)=0.0048 *7*; α(L)=0.00063 *7* α(K)exp=0.0041 *22* (1990MaYX).
634.5 *2*	0.051 *9*	2402.13	$(1,2)^+$	1767.54	$(2^+,3,4^+)$			
[x]640.6 *1*	0.074 *9*							
643.76[‡] *7*	1.04 *9*	2460.88	7^+	1816.98	$(5)^+$	(E2)	0.00462	α=0.00462; α(K)=0.00391 *12*; α(L)=0.00053 *2* α(K)exp=0.0043 *5* (1990MaYX).
649.84[‡] *9*	0.21 *2*	1924.11	2^+	1274.43	$(2)^+$			
655.1[‡] *3*	0.06 *2*	2727.40	$(4^+,5,6^+)$	2071.97	4^+			
656.4 *3*	0.06 *2*	2402.13	$(1,2)^+$	1745.31	$^+$			
[x]663.3 *4*	0.016 *6*							
667.53[b j] *7*	0.12 *2*	1941.32	2^+	1274.43	$(2)^+$	M1,E2	0.0049 *7*	α=0.0049 *7*; α(K)=0.0042 *7*; α(L)=0.00054 *6* α(K)exp=0.0041 *8* (1990MaYX).
668.2[‡] *1*	0.53 *6*	2653.82	(8^+)	1985.62	6^+			

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [#]	Comments
669.50 *8*	0.39 *3*	1941.32	2^+	1271.72	3^+	M1,E2	0.0049 *7*	α=0.0049 *7*; α(K)=0.0042 *7*; α(L)=0.00054 *6* α(K)exp=0.0029 *10* (1990MaYX).
[x]672.6 *2*	0.056 *9*							
674.8 *2*	0.07 *1*	2071.97	4^+	1397.40	6^+			
[x]682.5 *2*	0.043 *8*							
688.72 *9*	0.16 *2*	2853.98		2165.17	$(2^+,3,4^+)$			
[x]693.2 *2*	0.036 *8*							
701.88[‡] *6*	2.4 *2*	2099.24	8^+	1397.40	6^+	(E2)	0.00371	α=0.00371; α(K)=0.00315 *10*; α(L)=0.00042 *1* α(K)exp=0.0037 *4*, K/L=6.7 *14* (1990MaYX); α(K)exp=0.0039 *13* (1977Ge03).
[x]704.6 *2*	0.066 *9*							
714.6		1623.25	0^+	908.70	0^+	E0[g]		Ti(E0)=2.23 *8* relative to Iγ(747γ)=100 from a measured x=B(E0; 1623L to g.s.)/B(E2; 747γ)=1.06 *11* (1990MaYX). Other: x=1.0 *1* (1988Wa33).
[x]720.7						E0[g]		
723.1 *2*	0.040 *6*	1995.07	2	1271.72	3^+			
[x]727.7 *1*	0.09 *1*							
731.6 *2*	0.031 *7*	2830.38		2099.24	8^+			
736.02 *9*	0.40 *4*	2721.88	$(3,4,5)^+$	1985.62	6^+	M1,E2	0.0039 *6*	α=0.0039 *6*; α(K)=0.0033 *5*; α(L)=0.00043 *5* α(K)exp=0.0050 *7* (1990MaYX).
741.9 *2*	0.052 *7*	2727.40	$(4^+,5,6^+)$	1985.62	6^+			
747.24 *7*	0.62 *6*	1623.25	0^+	876.09	2^+	(E2)	0.00319	α=0.00319; α(K)=0.00271 *9*; α(L)=0.00036 *1* E_γ: unplaced in 1977Ge03. α(K)exp=0.0037 *5* (1990MaYX).
759.1 *2*	0.047 *8*	2830.38		2071.97	4^+			
[x]762.6 *1*	0.12 *1*							
[x]765.3 *1*	0.08 *1*							
776.5 *2*	0.066 *9*	2050.57	$(2^+,3,4^+)$	1274.43	$(2)^+$			
779.5[ibj] *1*	<0.19[i]	2050.57	$(2^+,3,4^+)$	1271.72	3^+			I_γ: given as <0.17 *2* by authors.
779.5[ibj] *1*	<0.19[i]	2402.13	$(1,2)^+$	1623.25	0^+			I_γ: given as <0.17 *2* by authors.
[x]783.1 *2*	0.048 *8*							
785.6 *1*	0.12 *1*	2186.79	(2,3,4)	1401.30	4^+			
800.40 *9*	0.48 *4*	2071.97	4^+	1271.72	3^+	E2(+M1)	0.0032 *5*	α=0.0032 *5*; α(K)=0.0027 *5*; α(L)=0.00035 *5* α(K)exp=0.0025 *3* (1990MaYX).
[x]805.1 *1*	0.16 *2*							
[x]812.0 *2*	0.050 *9*							
816.75 *8*	0.33 *3*	1725.40	2^+	908.70	0^+	(E2)	0.00258	α=0.00258; α(K)=0.00220 *7*; α(L)=0.00029 *1* E_γ: unplaced in 1977Ge03. α(K)exp=0.0022 *6* (1990MaYX).
826.7 *3*	0.08 *1*	2812.67	(4)	1985.62	6^+			
[x]839.3 *3*	0.11 *1*							
846.4[j] *2*	0.041 *8*	2830.38		1985.62	6^+			

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [#]	Comments
849.37 [‡] *7*	0.72 *6*	1725.40	2^+	876.09	2^+	M1+E2+E0		α(K)exp=0.0092 *9* (1990MaYX). I_γ: other: 0.88 *9* if I(561γ)=2.0 (1977Ge03).
[x]853.6 *2*	0.52 *8*							
869.31 *8*	0.51 *5*	1745.31	$^+$	876.09	2^+	M1,E2	0.0026 *4*	α=0.0026 *4*; α(K)=0.0022 *4*; α(L)=0.00028 *4* α(K)exp=0.0017 *4* (1990MaYX).
871.4 *2*	0.11 *2*	2272.68	$(4^-,5^-)$	1401.30	4^+			
876.08 [‡] *6*	7.3 *7*	876.09	2^+	0.0	0^+	(E2)	0.00220	α=0.00220; α(K)=0.00187 *6*; α(L)=0.00024 *1* α(K)exp=0.0016 *2*, K/L=6.2 *10* (1990MaYX); α(K)exp=0.0023 *8* (1977Ge03).
[x]885.7 *2*	0.06 *1*							
891.1 *2*	0.053 *8*	2165.17	$(2^+,3,4^+)$	1274.43	$(2)^+$			
893.4 *1*	0.08 *1*	2165.17	$(2^+,3,4^+)$	1271.72	3^+			
[x]896.7 *2*	0.07 *1*							
905.2 *1*	0.12 *1*	2721.88	$(3,4,5)^+$	1816.98	$(5)^+$			
908.7		908.70	0^+	0.0	0^+	E0 [g]		Ti(E0)=191 *11* relative to Iγ(586γ)=100 from a measured x=B(E0; 908L to g.s.)/B(E2; 586γ)=0.018 *1* (1990MaYX). Other: x=0.019 *2* (1988Wa33).
912.2 *1*	0.14 *1*	2186.79	(2,3,4)	1274.43	$(2)^+$			
915.2 *1*	0.19 *2*	1711.74	$(4)^+$	796.18	4^+	M1+E2+E0		α(K)exp=0.0218 *26* (1990MaYX).
[x]930.8 *2*	0.062 *9*							
[x]940.0 *2*	0.023 *7*							
[x]943.9 *2*	0.020 *8*							
949.15 [‡] *6*	8.6 *8*	1271.72	3^+	322.60	2^+	E2(+M1)	0.0021 *4*	α=0.0021 *4*; α(K)=0.0018 *3*; α(L)=0.00023 *3* α(K)exp=0.0016 *2*, K/L=7.3 *16* (1990MaYX); α(K)exp=0.0061 *15* (1977Ge03).
951.93 [‡] *7*	2.1 *2*	1274.43	$(2)^+$	322.60	2^+	(E2+E0)		α(K)exp=0.0120 *12*, K/L=7.3 *12* (1990MaYX); α(K)exp=0.011 *8* (1977Ge03). I_γ: other: 1.7 *9* if (1274γ)=6.9 (1977Ge03).
956.9 *1*	0.23 *2*	2682.12		1725.40	2^+			
968.0 *2*	0.16 *1*	2242.12		1274.43	$(2)^+$			
971.3 *1*	0.31 *2*	1767.54	$(2^+,3,4^+)$	796.18	4^+			
[x]979.1 *1*	0.17 *2*							
[x]991.0 *2*	0.13 *1*							
1001.0 *2*	0.09 *1*	2272.68	$(4^-,5^-)$	1271.72	3^+			
1015.3 *1*	0.12 *1*	1924.11	2^+	908.70	0^+			
1020.95 [‡] *7*	1.1 *1*	1816.98	$(5)^+$	796.18	4^+	(E2)	0.00156	α=0.00156; α(K)=0.00134 *4*; α(L)=0.00017 *1* α(K)exp=0.0014 *2* (1990MaYX).
1023.6 *2*	0.07 *1*	2295.10		1271.72	3^+			
[x]1028.4 *2*	0.032 *8*							
1032.6 *1*	0.11 *1*	1941.32	2^+	908.70	0^+			
[x]1035.2 *2*	0.055 *9*							
1037.0 *3*	0.039 *8*	2853.98		1816.98	$(5)^+$			
[x]1042.1 *2*	0.047 *8*							

$^{120}_{54}Xe_{66}$-7

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

$\gamma(^{120}Xe)$ (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [#]	Comments
1047.4[b j] *1*	0.17 *2*	1924.11	2^+	876.09	2^+			
[x]1052.3 *3*	0.09 *2*							
[x]1054.1 *3*	0.05 *1*							
[x]1057.7 *2*	0.06 *1*							
1063.5 *1*	0.34 *3*	2460.88	7^+	1397.40	6^+			
1065.10 *8*	0.72 *7*	1941.32	2^+	876.09	2^+			
1067.9 *2*	0.12 *1*	2812.67	(4)	1745.31	$^+$			
[x]1070.7 *2*	0.06 *1*							
1078.71 *9*	0.24 *2*	1401.30	4^+	322.60	2^+			
[x]1084.2 *1*	0.16 *2*							
1086.4[i j] *1*	<0.24[i]	1995.07	2	908.70	0^+			I_γ: given as <0.22 *2* by authors.
1086.4[i] *1*	<0.24[i]	2853.98		1767.54	$(2^+,3,4^+)$			I_γ: given as <0.22 *2* by authors.
1098.30 *7*	0.91 *8*	2495.71	(7^-)	1397.40	6^+	(E1)	0.00058	α=0.00058; α(K)=0.00050 *2* α(K)exp=0.00052 *20* (1990MaYX).
1105.6 *5*	0.022 *8*	1982.49	$(1,2^+)$	876.09	2^+			
[x]1111.7 *2*	0.14 *2*							
[x]1113.7 *2*	0.10 *1*							
1119.0 *1*	0.18 *2*	1995.07	2	876.09	2^+			
1127.4[h] *3*	<0.058[h]	1924.11	2^+	796.18	4^+			I_γ: given as <0.049 *9* by authors.
1127.4[h] *3*	<0.058[h]	2402.13	$(1,2)^+$	1274.43	$(2)^+$			I_γ: given as <0.049 *9* by authors.
1130.46 *7*	0.62 *6*	2402.13	$(1,2)^+$	1271.72	3^+	M1,E2	0.00146 *20*	α=0.00146 *20*; α(K)=0.00125 *18*; α(L)=0.00015 *2* α(K)exp=0.0014 *4* (1990MaYX).
[x]1138.8 *1*	0.08 *1*							
1142.33 *8*	0.46 *4*	2853.98		1711.74	$(4)^+$			
1145.0 *2*	0.063 *9*	1941.32	2^+	796.18	4^+			
1147.29 *9*	0.31 *3*	2544.70	(6^-)	1397.40	6^+			E_γ: unplaced γ in (1990MaYX).
[x]1150.6 *3*	0.034 *8*							
[x]1156.0 *2*	0.05 *1*							
[x]1164.5 *2*	0.08 *1*							
[x]1171.6 *3*	0.08 *1*							
1175.6 *3*	<0.27	2050.57	$(2^+,3,4^+)$	876.09	2^+			I_γ: given as <0.25 *2* by authors.
1175.6 *1*	<0.27	3470.91	(2^+)	2295.10				I_γ: given as <0.25 *2* by authors.
[x]1179.5 *3*	0.06 *1*							
[x]1183.3 *2*	0.09 *1*							
1190.2 *4*	0.03 *1*	1985.62	6^+	796.18	4^+			
1195.80 *9*	0.47 *4*	2071.97	4^+	876.09	2^+			
1199.6 *3*	0.048 *9*	1995.07	2	796.18	4^+			
[x]1212.1[‡] *1*	0.24 *2*							
[x]1220.5 *2*	0.09 *1*							
[x]1224.60[‡] *9*	0.36 *4*							
[x]1240.8[‡] *1*	0.21 *2*							E_γ: other: 1239.7 *7* (1977Ge03).
[x]1249.2 *3*	0.07 *1*							

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [#]	Comments
1254.1[‡] *1*	0.24 *3*	2050.57	(2$^+$,3,4$^+$)	796.18	4$^+$			I_γ: other: 0.14 *6* if I(1728γ)=1.6 (1977Ge03).
1261.5 *2*	0.10 *3*	2536.07		1274.43	(2)$^+$			
1274.52[‡] *8*	6.9 *6*	1274.43	(2)$^+$	0.0	0$^+$	(E2)	0.00098	α=0.00098; α(K)=0.00084 *3*; α(L)=0.00010 α(K)exp=0.00084 *10* (1990MaYX).
1276.3[‡] *2*	1.0 *2*	2071.97	4$^+$	796.18	4$^+$			I_γ: other: 7.3 *9* (1977Ge03).
1289.0 *2*	0.11 *1*	2165.17	(2$^+$,3,4$^+$)	876.09	2$^+$			
x1291.1[‡] *1*	0.28 *3*							
1300.75[‡] *9*	0.35 *3*	1623.25	0$^+$	322.60	2$^+$			E_γ: unplaced in 1977Ge03.
1310.82[‡] *9*	0.32 *3*	2186.79	(2,3,4)	876.09	2$^+$			
x1324.9 *2*	0.068 *9*							
1329.87[‡] *8*	0.38 *3*	2727.40	(4$^+$,5,6$^+$)	1397.40	6$^+$			I_γ: other: 0.25 *4* if Iγ(1931γ)=0.73 (1977Ge03).
x1338.9 *2*	0.062 *8*							
x1342.7 *5*	0.016 *6*							
x1364.3 *5*	0.06 *2*							
1366.0[‡] *1*	0.70 *7*	2242.12		876.09	2$^+$			I_γ: other: 0.45 *7* if I(561γ)=0.75 (1977Ge03).
1369.07[‡] *8*	0.51 *4*	2165.17	(2$^+$,3,4$^+$)	796.18	4$^+$			
x1373.2 *2*	0.069 *9*							
x1380.3 *3*	0.030 *7*							
1389.23[‡] *7*	2.1 *2*	1711.74	(4)$^+$	322.60	2$^+$			
1399.5 *3*	0.13 *2*	3470.91	(2$^+$)	2071.97	4$^+$			
1402.76[‡] *8*	1.2 *1*	1725.40	2$^+$	322.60	2$^+$	M1+E2+E0		α(K)exp=0.0025 *4* (1990MaYX). I_γ: other: 1.44 *14* if I(561γ)=0.51 (1977Ge03).
1407.5[‡] *1*	0.24 *3*	2682.12		1274.43	(2)$^+$			
1411.1 *1*	0.26 *3*	2812.67	(4)	1401.30	4$^+$			
x1420.0 *1*	0.23 *2*							
1422.65[‡] *8*	0.80 *7*	1745.31	$^+$	322.60	2$^+$			
x1429.8 *1*	0.13 *1*							
1434.0[‡] *1*	0.31 *2*	2831.40	7$^-$	1397.40	6$^+$			
1444.97[‡] *7*	2.5 *2*	1767.54	(2$^+$,3,4$^+$)	322.60	2$^+$			
1450.1 *3*	0.11 *2*	2721.88	(3,4,5)$^+$	1271.72	3$^+$			
1452.69[‡] *8*	1.2 *1*	2853.98		1401.30	4$^+$			
x1470.33[‡] *8*	0.38 *4*							
x1473.9 *3*	0.048 *9*							
1476.6[‡] *1*	0.36 *3*	2272.68	(4$^-$,5$^-$)	796.18	4$^+$			E_γ: other: 1477.5 *5* (1977Ge03), but unplaced. I_γ: other: 0.47 *6* if I(561γ)=0.95 (1977Ge03).
x1479.0 *1*	0.26 *3*							
x1490.0[a] *6*	0.21 *6*							
1494.4 *3*	0.11 *3*	2402.13	(1,2)$^+$	908.70	0$^+$			
x1501.2 *2*	0.15 *3*							

$^{120}_{54}Xe_{66}$-9

γ(^{120}Xe) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	Comments
[x]1502.6 *4*	0.07 *3*						
[x]1514.4 *1*	0.17 *2*						
[x]1521.1[c] *1*	0.23 *2*						
[x]1523.1[c] *2*	0.08 *1*						
1526.1[‡] *1*	0.24 *2*	2402.13	$(1,2)^+$	876.09	2^+		E_γ: unplaced in 1977Ge03.
1533.0[af] *6*	0.27 *6*	2930.69	(7^-)	1397.40	6^+		
1538.4[‡] *1*	0.39 *4*	2812.67	(4)	1274.43	$(2)^+$		
1560.5 *2*	0.13 *2*	3802.63	(2^+)	2242.12			
[x]1563.1[‡] *3*	0.12 *2*						
1566.1 *2*	0.11 *2*	3802.63	(2^+)	2236.65	0^+		
1572.0 *2*	0.040 *8*	2448.42	$(3,4)^+$	876.09	2^+		
[x]1576.9 *4*	0.021 *7*						
1581.2[bdj] *2*	0.073 *9*	2853.98		1271.72	3^+		
1590.6 *3*	0.045 *8*	3357.21	2^+	1767.54	$(2^+,3,4^+)$		
[x]1592.8[‡] *1*	0.34 *2*						
1619.1[‡] *2*	0.222 *19*	1941.32	2^+	322.60	2^+		
1623.3		1623.25	0^+	0.0	0^+	E0[g]	Ti(E0)=0.69 *9* relative to Iγ(1300γ)=56 from a measured x=B(E0; 1623L to g.s.)/B(E2; 1300γ)=0.13 *2* (1990MaYX). Other: x=0.21 *3* (1988Wa33).
1632.0[‡] *3*	0.22 *2*	3357.21	2^+	1725.40	2^+		
[x]1636.3[‡] *3*	0.24 *2*						
1653.0 *5*	0.13 *3*	2448.42	$(3,4)^+$	796.18	4^+		
1659.9[i‡] *1*	0.41[i] *7*	1982.49	$(1,2^+)$	322.60	2^+		
1659.9[i] *1*	0.61[i] *4*	2536.07		876.09	2^+		
1672.3[‡] *1*	1.9 *2*	1995.07	2	322.60	2^+		α(K)exp=0.00091 *21* (1990MaYX).
[x]1678.4 *8*	0.09 *2*						
[x]1694.1 *3*	0.16 *2*						
[x]1700.4 *4*	0.13 *2*						
[x]1715.2 *3*	0.14 *2*						
1728.2[‡] *1*	1.6 *1*	2050.57	$(2^+,3,4^+)$	322.60	2^+		
[x]1743.9[‡] *2*	0.43 *4*						
1748.9[‡] *2*	0.35 *3*	2071.97	4^+	322.60	2^+		
[x]1755.8 *3*	0.17 *2*						
[x]1763.2 *4*	0.11 *2*						
[x]1778.1[a] *6*	0.21 *6*						
[x]1785.4 *3*	0.20 *3*						
[x]1800.1 *3*	0.19 *2*						E_γ: other: 1801.5 *8* (1977Ge03).
1806.0[‡] *2*	0.41 *3*	2682.12		876.09	2^+		
[x]1814.1 *3*	0.17 *2*						
[x]1827.8[‡] *2*	0.27 *3*						

$^{120}_{54}Xe_{66}$-10

γ(^{120}Xe) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	Comments
1842.2[‡] *1*	0.41 *3*	2165.17	(2$^+$,3,4$^+$)	322.60	2$^+$		
1848.2 *2*	0.18 *2*	3470.91	(2$^+$)	1623.25	0$^+$		
[x]1858.1 *4*	0.11 *1*						
1864.1[‡] *1*	0.45 *3*	2186.79	(2,3,4)	322.60	2$^+$		
[x]1905.2 *4*	0.07 *1*						
1919.4[‡] *1*	0.75 *5*	2242.12		322.60	2$^+$		
1931.1[‡] *1*	0.73 *5*	2727.40	(4$^+$,5,6$^+$)	796.18	4$^+$		E_γ: other: 1931.7 *4* (1977Ge03).
1936.4 *4*	0.14 *2*	2812.67	(4)	876.09	2$^+$		
1941.3 *8*	0.06 *1*	1941.32	2$^+$	0.0	0$^+$		
[x]1958.7 *3*	0.34 *3*						
[x]1960.5[a] *8*	0.3 *6*						
[x]1964.0[‡] *6*	0.4 *2*						
1981.6[b‡j] *1*	1.33 *9*	1982.49	(1,2$^+$)	0.0	0$^+$		
1995.0[‡] *2*	0.36 *3*	1995.07	2	0.0	0$^+$		E_γ: other: 1996.0 *5* (1977Ge03).
[x]2003.6 *3*	0.13 *2*						
[x]2012.5[‡] *1*	0.61 *4*						
[x]2039.2 *2*	0.19 *2*						
2056.7[‡bdj] *1*	1.1 *1*	2853.98		796.18	4$^+$		
[x]2059.0[a] *8*	0.55 *15*						
[x]2074.0 *4*	0.10 *1*						
2079.3 *1*	0.41 *3*	2402.13	(1,2)$^+$	322.60	2$^+$		
[x]2087.1 *3*	0.11 *1*						
[x]2094.2 *2*	0.25 *2*						Other: E=2095.4 *6*, Iγ=0.30 *9* (1977Ge03).
[x]2100.4 *2*	0.20 *2*						
[x]2117.6 *3*	0.09 *1*						
2127.4 *4*	0.08 *1*	4313.11	2$^+$	2186.79	(2,3,4)		
[x]2134.8 *1*	0.57 *4*						Other: E=2135.6 *4*, Iγ=0.73 *9* (1977Ge03).
[x]2144.9 *2*	0.14 *1*						
[x]2185.4 *2*	0.20 *2*						
[x]2187.3[a] *4*	0.37 *6*						
[x]2189.0 *2*	0.18 *2*						
[x]2197.8 *2*	0.10 *1*						
2214.0[‡] *2*	0.20 *2*	2536.07		322.60	2$^+$		
[x]2218.8 *8*	0.034 *9*						
2236		2236.65	0$^+$	0.0	0$^+$	E0[g]	
[x]2236.8 *7*	0.11 *2*						
[x]2243.5 *3*	0.27 *4*						
[x]2251.7 *2*	0.29 *4*						
[x]2260.1 *2*	0.39 *6*						
[x]2275.8 *5*	0.050 *9*						
[x]2290.7 *2*	0.15 *1*						

$^{120}_{54}Xe_{66}$-11

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ[†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	Comments
[x]2297.9 *3*	0.08 *1*						
2315.0[‡] *1*	0.59 *4*	2637.59	(1,2$^+$)	322.60	2$^+$		
[x]2325.3 *3*	0.09 *1*						
[x]2334.1 *2*	0.17 *2*						
[x]2353.5 *3*	0.060 *9*						
[x]2364.2 *1*	0.21 *2*						E$_\gamma$: other: 2365.2 *6* (1977Ge03).
[x]2370.5 *3*	0.08 *1*						
[x]2394.5 *3*	0.13 *2*						
2402.6 *3*	0.17 *3*	2402.13	(1,2)$^+$	0.0	0$^+$		
[x]2410.6 *5*	0.12 *4*						
2411		2411.0	0$^+$	0.0	0$^+$	E0[g]	
[x]2416.2 *7*	0.14 *4*						
[x]2428.5[‡] *2*	0.23 *2*						
[x]2435.3 *9*	0.04 *1*						
2448.4 *4*	0.13 *2*	3357.21	2$^+$	908.70	0$^+$		
[x]2466.6 *1*	0.78 *6*						
[x]2476.6 *5*	0.09 *2*						
[x]2494.2 *2*	0.60 *5*						
[x]2516.2[‡] *4*	0.20 *3*						
2560.2 *3*	0.28 *3*	3357.21	2$^+$	796.18	4$^+$		
[x]2566.6 *5*	0.16 *2*						
[x]2584.67 *5*	0.08 *2*						E$_\gamma$: value is too accurate, maybe a typo.
2594.9 *5*	0.19 *3*	3470.91	(2$^+$)	876.09	2$^+$		
[x]2600.2 *9*	0.11 *2*						
[x]2621.6 *6*	0.07 *1*						
[x]2628.6[‡] *2*	0.25 *2*						
2636.9 *4*	0.16 *1*	2637.59	(1,2$^+$)	0.0	0$^+$		
[x]2663.1 *4*	0.09 *1*						
[x]2679.5 *4*	0.19 *2*						
[x]2681.8[a] *8*	0.36 *6*						
[x]2684.8 *3*	0.29 *3*						
[x]2688.3[a] *8*	0.30 *6*						
[x]2691.8 *4*	0.13 *1*						
[x]2734.8 *3*	0.22 *2*						
[x]2736.7[a] *6*	0.18 *3*						
[x]2742.0 *5*	0.20 *2*						
[x]2748.4 *4*	0.25 *2*						
[x]2758.3 *2*	0.27 *2*						
[x]2770.5 *3*	0.16 *2*						
[x]2786.4 *2*	0.41 *5*						Other: E=2787.3 *4*, Iγ=0.6 *1* (1977Ge03).
[x]2799.7 *3*	0.06 *1*						
[x]2805.6 *3*	0.079 *9*						
[x]2811.2 *3*	0.10 *1*						

$^{120}_{54}Xe_{66}$-12

γ(^{120}Xe) (continued)

E_γ †	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
x2816.2 2	0.12 1					
x2822.6 1	0.12 1					
x2834.3 3	0.06 1					
x2845.0‡ 1	0.23 2					
x2851.3 4	0.065 9					
x2860.6 2	0.14 1					
x2867.0 3	0.072 9					
x2892.9 2	0.14 1					
x2903.3 2	0.16 1					
2911.4 2	0.29 2	4313.11	2+	1401.30	4+	
x2919.5 3	0.12 1					
2926.5 1	0.45 3	3802.63	(2+)	876.09	2+	Other: 2927.2 4 (1977Ge03).
x2941.3 4	0.16 4					
x2954.5 6	0.10 2					
x2961 1	0.06 2					
x2966 2	0.04 2					
3006.2 1	0.59 4	3802.63	(2+)	796.18	4+	E_γ: other: 3007.0 6 (1977Ge03).
x3028.5 5	0.13 1					
x3031.9a 8	0.36 9					
3034.5 1	0.70 5	3357.21	2+	322.60	2+	
3042.9bj 3	0.14 1	4313.11	2+	1271.72	3+	E_γ: written in authors′ table but not seen in their drawing.
x3057.7 3	0.10 1					
x3072.9 3	0.08 1					
x3087.8 3	0.12 2					
x3096 2	0.03 2					
x3100.1 9	0.06 2					
x3109.1 2	0.29 4					
x3122.0 5	0.041 9					
x3129.8 2	0.10 1					
x3139.5 2	0.18 1					
3148.3‡ 2	0.41 3	3470.91	(2+)	322.60	2+	
x3149.8a‡ 8	0.67 13					
x3153 1	0.04 2					
x3175.3 2	0.17 1					
x3183.3 4	0.065 9					
x3190.7 3	0.10 1					
x3201.2 2	0.25 3					
x3205.8 5	0.12 1					
x3218.4 3	0.066 9					
x3224.5 6	0.030 6					
x3243.9 2	0.10 1					
x3249.1 4	0.068 8					
x3264.7 5	0.06 1					

$^{120}_{54}Xe_{66}$-13

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π
x3276.3[‡] *1*	0.40 *3*				
x3290.8 *5*	0.08 *1*				
x3298.4 *4*	0.11 *1*				
x3312 *1*	0.03 *1*				
x3324 *1*	0.07 *2*				
x3328.3 *4*	0.11 *3*				
x3337.3 *2*	0.14 *2*				
3357.2[‡] *1*	0.29 *2*	3357.21	2^+	0.0	0^+
x3371.4 *4*	0.039 *6*				
x3391.6 *8*	0.05 *1*				
3404.5 *4*	0.14 *1*	4313.11	2^+	908.70	0^+
x3414.2 *2*	0.19 *1*				
x3451.9 *2*	0.15 *1*				
x3464.4 *6*	0.027 *5*				
3470.6 *4*	0.041 *5*	3470.91	(2^+)	0.0	0^+
3480.8 *3*	0.048 *6*	3802.63	(2^+)	322.60	2^+
x3495.8[&] *8*	0.034 *9*				
x3495.8[&] *9*	0.032 *9*				
x3506.9 *8*	0.06 *2*				
x3510.9 *6*	0.08 *2*				
x3524.8 *3*	0.10 *1*				
x3532.2 *4*	0.09 *1*				
x3548.7 *3*	0.076 *8*				
x3555.4 *9*	0.020 *5*				
x3569.2 *4*	0.043 *7*				
x3584.1 *5*	0.06 *1*				
x3592 *2*	0.06 *3*				
x3604.2 *4*	0.07 *1*				
x3613.9 *2*	0.16 *2*				
x3624.6 *3*	0.07 *1*				
x3633.1 *3*	0.10 *2*				
x3638.3 *8*	0.033 *9*				
x3644.5 *2*	0.13 *2*				
x3651.3 *4*	0.06 *2*				
x3661.0 *5*	0.031 *7*				
x3666.4 *5*	0.031 *7*				
x3687.4 *3*	0.045 *6*				
x3699.5 *3*	0.043 *6*				
x3713.6 *4*	0.049 *6*				
x3720.0 *4*	0.051 *7*				
x3733.5 *2*	0.068 *9*				
x3748.0 *7*	0.021 *8*				
x3757.0 *3*	0.061 *9*				

$^{120}_{54}Xe_{66}$-14

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
[x]3765.4 *4*	0.034 *7*					
[x]3775.3 *2*	0.08 *1*					
[x]3787.7 *5*	0.022 *6*					
[x]3797.1 *3*	0.058 *6*					
3802.9 *2*	0.092 *8*	3802.63	(2$^+$)	0.0	0$^+$	
[x]3839.6 *2*	0.058 *6*					
[x]3852.3 *4*	0.042 *7*					
[x]3857.0 *4*	0.045 *6*					
[x]3873.7 *4*	0.032 *4*					
[x]3908.4 *8*	0.027 *5*					
[x]3915.5 *1*	0.27 *2*					
[x]3916.7[a] *8*	0.36 *6*					
[x]3928.3 *6*	0.024 *5*					
[x]3945.6 *4*	0.043 *5*					
[x]3951 *1*	0.019 *5*					
[x]3956.8 *4*	0.051 *6*					
[x]3966.2 *3*	0.043 *5*					
3990.9 *3*	0.046 *5*	4313.11	2$^+$	322.60	2$^+$	
[x]4019.2 *4*	0.072 *9*					
[x]4021.0[a] *8*	0.15 *6*					
[x]4024.0 *5*	0.051 *8*					
[x]4026.0[a] *8*	0.09 *3*					
[x]4035.8 *4*	0.030 *5*					
[x]4067.5[‡] *2*	0.087 *7*					Others: E=4068.5 *8*, Iγ=0.15 *6* (1977Ge03).
[x]4081.2 *4*	0.024 *3*					
[x]4095.3 *3*	0.039 *4*					
[x]4111.9 *5*	0.020 *3*					
[x]4118 *1*	0.010 *3*					
[x]4173.7 *6*	0.015 *3*					
[x]4190.2 *4*	0.023 *3*					
[x]4222.4 *6*	0.016 *3*					
[x]4230.4 *4*	0.023 *3*					
4313.0 *1*	0.107 *8*	4313.11	2$^+$	0.0	0$^+$	
[x]4314.5[a] *8*	0.15 *6*					
[x]4332.1 *3*	0.044 *4*					
[x]4342.3 *4*	0.026 *3*					
[x]4360.4 *3*	0.028 *3*					
[x]4370.6 *6*	0.014 *3*					
[x]4426.5 *5*	0.012 *3*					
[x]4437.3 *4*	0.017 *3*					
[x]4447.7 *7*	0.010 *3*					
[x]4457.6 *3*	0.035 *5*					
[x]4464 *2*	0.006 *3*					

$^{120}_{54}Xe_{66}$-15

^{120}Cs ε decay (64 s+57 s) 1990MaYX (continued)

γ(^{120}Xe) (continued)

E_γ †	I_γ	E_i(level)	E_γ †	I_γ	E_i(level)	E_γ †	I_γ	E_i(level)	E_γ †	I_γ	E_i(level)
[x]4479.3 *8*	0.010 *5*		[x]4634.7 *9*	0.010 *2*		[x]4771.6 *4*	0.024 *4*		[x]4989.7 *3*	0.023 *3*	
[x]4496 *2*	0.009 *3*		[x]4657 *1*	0.006 *2*		[x]4796 *1*	0.007 *2*		[x]5010.0 *5*	0.010 *2*	
[x]4505 *1*	0.012 *3*		[x]4667.6 *5*	0.014 *2*		[x]4822 *1*	0.007 *2*		[x]5208.4 *8*	0.007 *1*	
[x]4533.6 *7*	0.034 *9*		[x]4685.9 *5*	0.013 *2*		[x]4836.9 *5*	0.014 *2*		[x]5239.6 *5*	0.010 *1*	
[x]4594.4 *3*	0.030 *3*		[x]4696.3 *9*	0.007 *2*		[x]4859 *1*	0.006 *2*				
[x]4618 *1*	0.007 *2*		[x]4727 *1*	0.005 *2*		[x]4913.7 *6*	0.008 *1*				
[x]4625.3 *8*	0.015 *3*		[x]4751.1 *8*	0.011 *3*		[x]4959.5 *9*	0.005 *1*				

† From 1990MaYX, unless otherwise noted.
‡ Reported also in 1977Ge03, but most of those were treated as unplaced γ by the authors.
# Renormalized to α(K)(322γ E2)=0.0276.
@ From α(K)exp and/or measured K/L ratio from 1990MaYX, unless otherwise noted.
& Perhaps one of the two values is a typo.
[a] Only reported by 1977Ge03.
[b] Poor fitting to the levels from a least-squares fit.
[c] 1522.0γ reported by 1977Ge03 is possible as a composite line of these γ′s.
[d] If the 2853 level is a doublet, this γ possibly decays from another member of the doublet (evaluators).
[e] Unplaced γ′s in (1990MaYX).
[f] Not seen in authors′ table but given as a coincident γ with the 601γ.
[g] No γ observed (1990MaYX).
[h] Multiply placed with undivided intensity.
[i] Multiply placed with intensity suitably divided.
[j] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

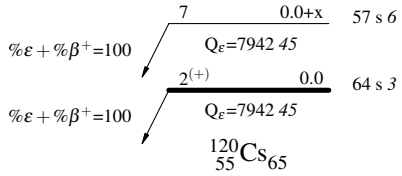
$^{120}_{54}Xe_{66}$-16

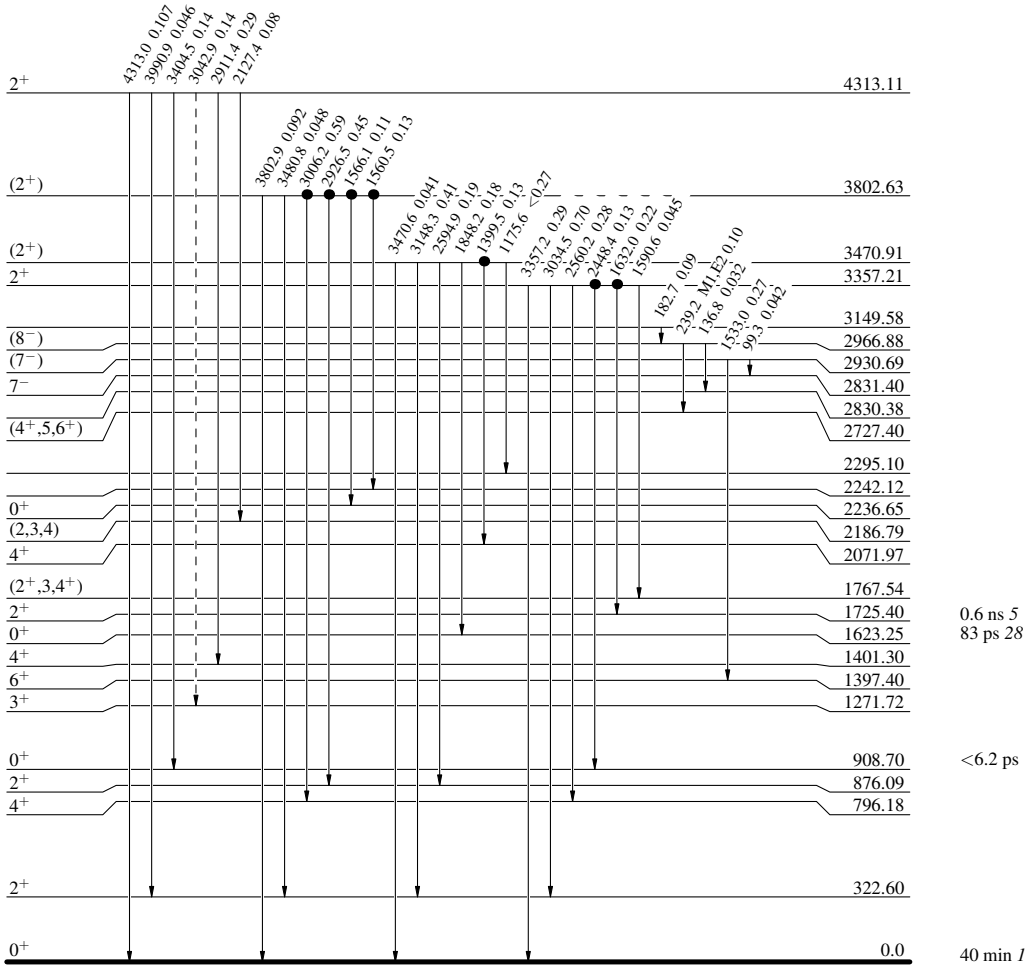
^{120}Cs ε decay (64 s+57 s) 1990MaYX

Decay Scheme

Intensities: Relative Iγ from a mixed 57-S, 64-S Cs source

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





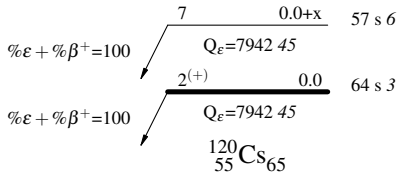
$^{120}_{54}Xe_{66}$

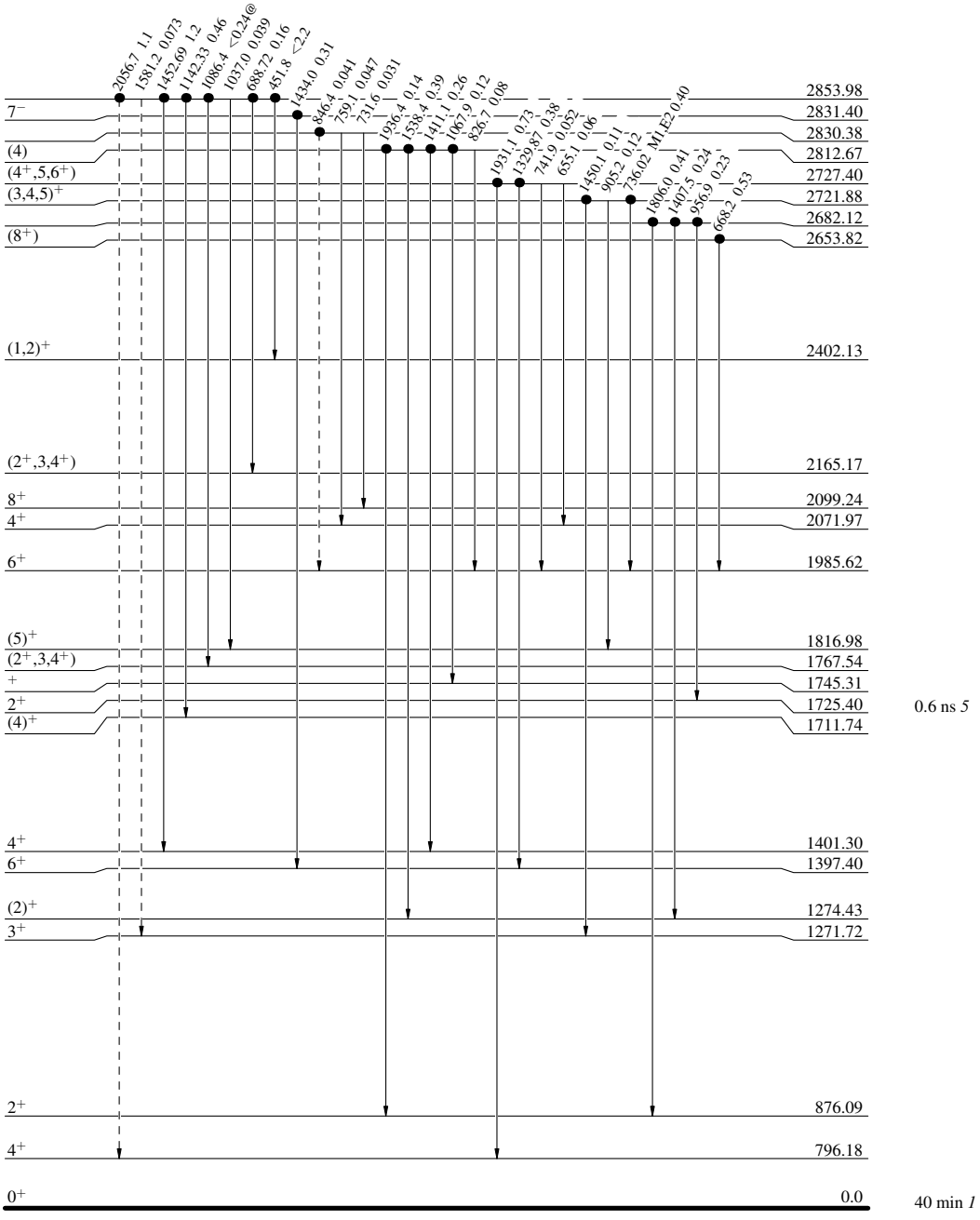
^{120}Cs ε decay (64 s+57 s) 1990MaYX

Decay Scheme (continued)

Intensities: Relative Iγ from a mixed 57-S, 64-S Cs source
@ Multiply placed: intensity suitably divided

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





$^{120}_{54}Xe_{66}$

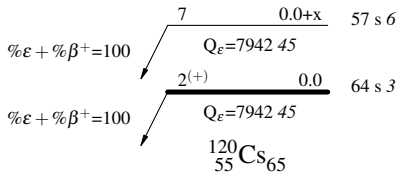
^{120}Cs ε decay (64 s+57 s) 1990MaYX

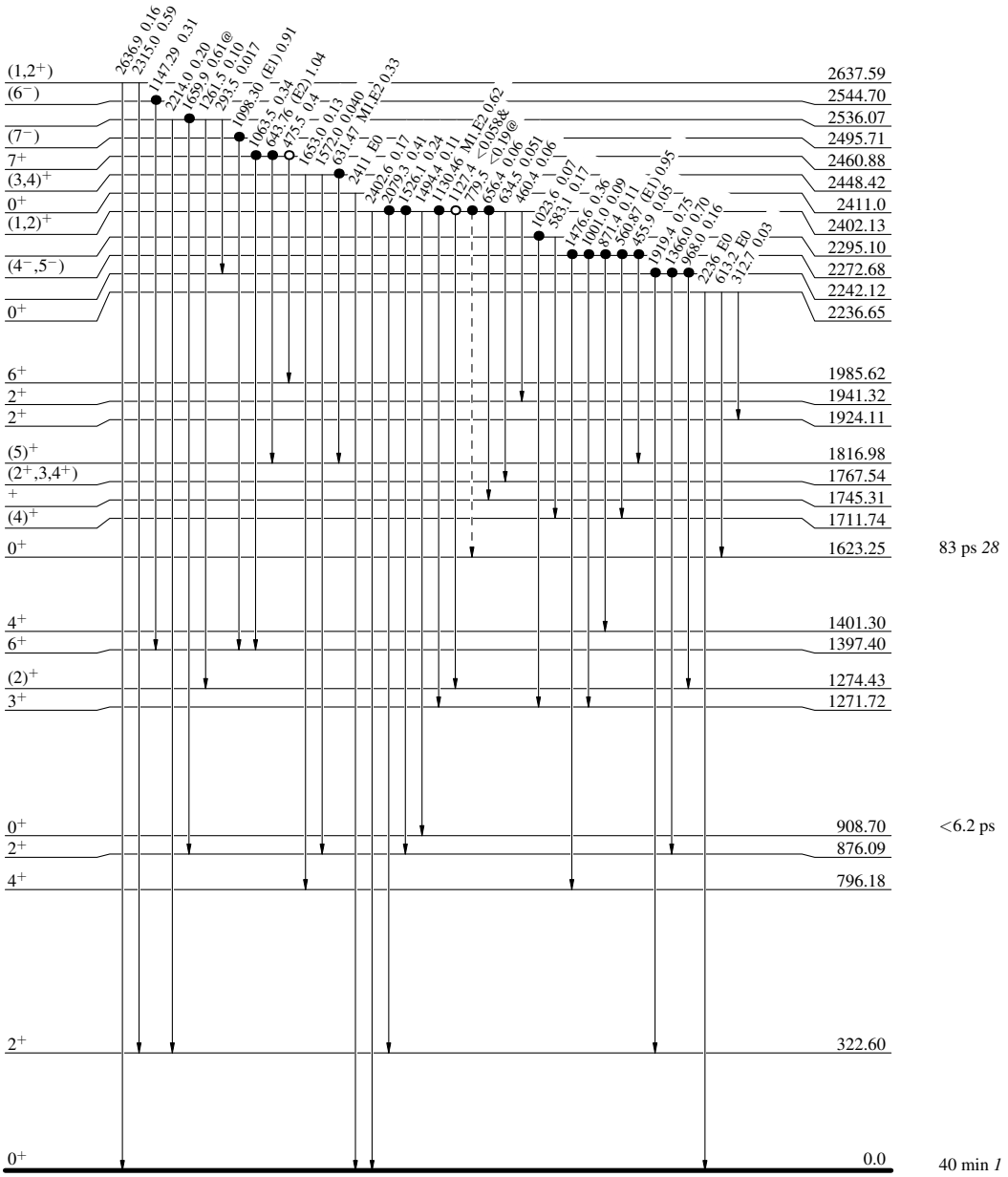
Decay Scheme (continued)

Legend

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

Intensities: Relative Iγ from a mixed 57-S, 64-S Cs source
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided





$^{120}_{54}Xe_{66}$

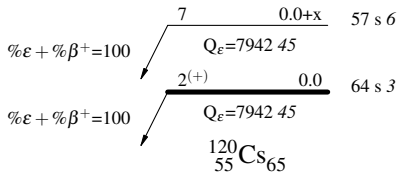
^{120}Cs ε decay (64 s+57 s) 1990MaYX

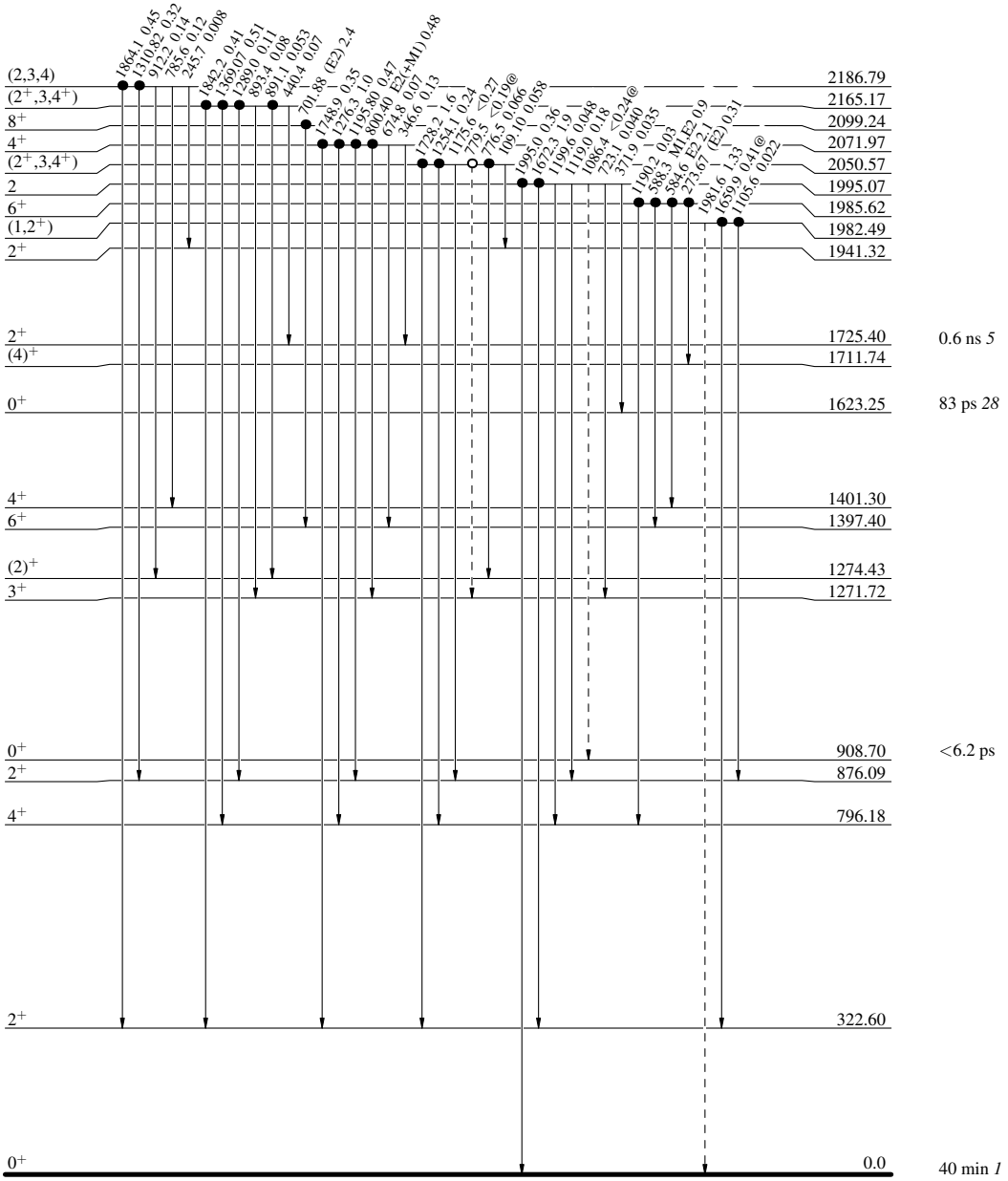
Decay Scheme (continued)

Legend

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

Intensities: Relative Iγ from a mixed 57-S, 64-S Cs source
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided





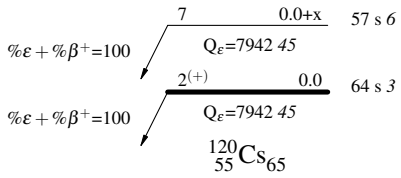
$^{120}_{54}Xe_{66}$

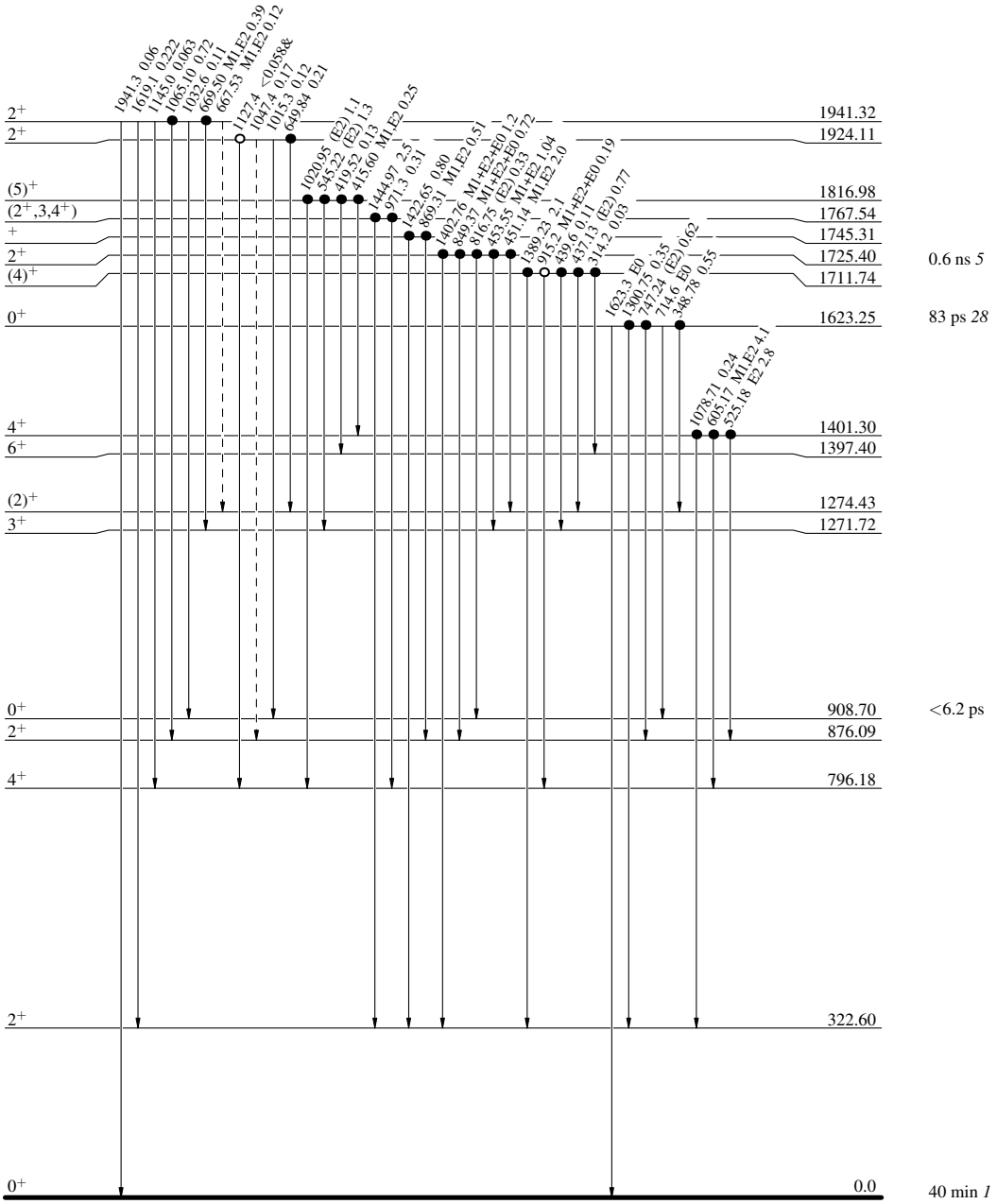
^{120}Cs ε decay (64 s+57 s) 1990MaYX

Decay Scheme (continued)

Intensities: Relative Iγ from a mixed 57-S, 64-S Cs source
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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





$^{120}_{54}Xe_{66}$

^{120}Cs ε decay (64 s+57 s) 1990MaYX

Decay Scheme (continued)

Intensities: Relative Iγ from a mixed 57-S, 64-S Cs source
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided