Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Katakura	NDS 112,495 (2011)	1-Jan-2010

Q(β^-)=766.7 *22*; S(n)=8707 *3*; S(p)=7311 *3*; Q(α)=-4.84×10^3 *3* 2012Wa38
Note: Current evaluation has used the following Q record 766.7 218706.7 *267307.7* *26* −4839 *28* 2009AuZZ.
Other reaction: 1992NiZZ; heavy ion reaction, but no data are available.

^{125}Sb Levels

E(A),J(A) Analog resonance, J^π from analyzing power in ^{124}Sn(pol p,p). The uncertainties in the resonance energies are 5-20 keV.

Cross Reference (XREF) Flags

A	^{124}Sn(pol p,p) IAR	F	^{126}Te(t,α)
B	^{124}Sn(^{3}He,d)	G	^{238}U(^{12}C,xγ)
C	^{125}Sn β^- decay (9.52 min)	H	^{124}Sn(^{7}Li,α2nγ)
D	^{125}Sn β^- decay (9.64 d)	I	^{125}Sb IT decay (25 μs)
E	^{126}Te(d,^{3}He)		

E(level)†	J^π	$T_{1/2}$	XREF	Comments
0.0	7/2+	2.75856 y *25*	BCDEFGHI	%β^-=100 μ=+2.63 *4* (1989Ra17) J^π: L=4 in (d,^{3}He), (^{3}He,d), (t,α); ΔJ=2−yes shape β^- feeds 11/2− daughter (1959Na06,1964Ma30,1966Ma49). $T_{1/2}$: From weighted average of 1007.56 d *10* (1992Un01), 1008.1 d *8* (1983Wa26) and 1007.3 d *3* (1980Ho17)(1y=365.242 d). Others: 2.6 y *1* (1960Kl04), 2.78 y *4* (1961Wy01), 2.71 y *2* (1965Fl02), 2.81 y *5* (1966La13), 2.7 y (1950Le09). μ: From nuclear magnetic resonance on oriented nuclei (1989Ra17). 1974Ca06 give measurement. See also 2005St24 compilation. Configuration=(π $1g_{7/2}$).
332.06 *3*	5/2+	156 ps *8*	BCDEF	J^π: L=2 in (^{3}He,d), (t,α); M1+E2 γ to 7/2+. $T_{1/2}$: From ^{125}Sn β^- decay (9.52 min). Configuration=(π $2d_{5/2}$).
642.97 *2*	3/2+,5/2+#		BC EF	J^π: L=2 in (^{3}He,d), (t,α) favors 3/2+.
921.67 *3*	1/2+		BC EF	J^π: L=0 in (^{3}He,d), (t,α). Configuration=(π $3s_{1/2}$).
1067.30 *3*	9/2+‡		D HI	J^π: M1+E2 γ to 7/2+.
1089.50 *3*	11/2+‡		D GHI	J^π: E2 γ to 7/2+.
1349.60 *3*	7/2+		CD	J^π: Log $f^{1u}t$=10.38 from 11/2−, M1+E2 γ to 5/2+.
1419.85 *4*	9/2+		D	J^π: M1+E2 γ to 7/2+, 469 E1 γ from 11/2−.
1483.78 *2*	3/2+,5/2+		BC	J^π: L=2 in (^{3}He,d).
1560@ *5*			B	
1591.57 *5*	7/2+,9/2+		D	J^π: Log *ft*=10.23 from 11/2−. γ to 5/2+.
1660@ *20*			B	
1700.69 *5*	1/2+,3/2,5/2+		C	J^π: γ's to 1/2+ and 5/2+.
1736.13 *3*	(3/2)+#		BC	J^π: L=2 in (^{3}He,d); reaction strength favors 3/2+.
1800@ *20*	1/2+		B	J^π: L=0 in (^{3}He,d).
1806.700 *16*	(9/2)+		DEF	J^π: L=4 in (d,^{3}He), (t,α). Large C^2S in (d,^{3}He) favors 9/2+.

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Adopted Levels, Gammas (continued)

^{125}Sb Levels (continued)

E(level)[†]	J^π	$T_{1/2}$	XREF	Comments
1889.848 *15*	9/2$^-$,11/2$^-$		B D	J^π: E1 γ to 9/2$^+$ and 11/2$^+$. Large C^2S in (d,^{3}He) favors 11/2$^-$; however, this requires the weak gs γ to be M2.
1894[&] *10*			F	
1913.77 *8*	3/2$^+$,5/2		C	J^π: γ's to 5/2$^+$ and 7/2$^+$. log *ft*=6.47 from 3/2$^+$.
1947.45 *4*	(3/2)$^+$[#]		BC	J^π: γ's to 1/2$^+$ and 7/2$^+$. log *ft*=5.80 from 3/2$^+$. L=2 in (d,^{3}He).
1971.25 *20*	15/2$^-$	4.1 μs *2*	HI	J^π: M2+E3 γ to 11/2$^+$, E3 γ to 9/2$^+$. $T_{1/2}$: From ^{124}Sn(^{7}Li,α2nγ).
1971.25+x *20*	(19/2$^-$)	25 μs *4*	I	Additional information 1. E(level),$T_{1/2}$: From 2010Re01.
1982.84 *4*	11/2$^-$		D	J^π: Log *ft*=7.28 from 11/2$^-$, $\gamma\gamma(\theta)$ and (pol γ)$\gamma(\theta)$ favors 11/2$^-$.
1993.64 *25*	(15/2)$^+$		GH	J^π: E2 γ to 11/2$^+$.
2002.140 *12*	9/2,11/2$^+$		D	J^π: Log *ft*=7.50 from 11/2$^-$, γ to 7/2$^+$.
2112.1 *3*	(19/2$^-$)	28.0 μs *7*	H	J^π: E2 γ to 15/2$^-$. $T_{1/2}$: From ^{124}Sn(^{7}Li,α2nγ).
2113.0 *10*	1/2$^-$,3/2$^-$		C EF	J^π: L=1 in (d,^{3}He), (t,α).
2193.4 *3*	15/2$^+$		GH	J^π: E2 γ from (19/2)$^+$. γ to 11/2$^+$.
2201.023 *12*	9/2,11/2$^+$		D	J^π: Log *ft*=7.90 from 11/2$^-$, γ to 7/2$^+$.
2217.2 *3*	(17/2)$^-$		H	J^π: M1 γ to 15/2$^-$, systematics.
2227.0 *4*			D	
2240.72 *4*	9/2$^+$		D	J^π: Log *ft*=6.53 from 11/2$^-$, M1+E2 γ's to 11/2$^+$ and 9/2$^+$, $\gamma\gamma(\theta)$ (1971Ma01,1980Ve04) favors 9/2.
2253.39 *5*	9/2,11/2,13/2		D	J^π: Log *ft*=6.99 from 11/2$^-$.
2275.769 *10*	9/2,11/2$^+$		D	J^π: Log *ft*=6.49 from 11/2$^-$, intense γ to 7/2$^+$.
2288.21 *8*	(11/2$^+$)		D	J^π: Log *ft*=6.13 from 11/2$^-$, $\gamma\gamma(\theta)$ suggests 11/2$^+$.
2299[&] *10*	1/2$^-$,3/2$^-$		EF	J^π: L=1 in (t,α), (d,^{3}He).
2325.0 *3*	(19/2)$^+$	31 ns *2*	GH	J^π: E2 γ to 15/2$^+$. γ to (17/2)$^-$, systematics. $T_{1/2}$: From ^{124}Sn(^{7}Li,α2nγ).
2471.0 *4*	(23/2)$^+$	272 ns *16*	GH	J^π: E2 γ to (19/2$^+$), systematics. $T_{1/2}$: From ^{124}Sn(^{7}Li,α2nγ).
2480[@] *20*			B	
2483.8 *4*			G	
2488.5 *5*			G	
2515[&] *10*	1/2$^-$,3/2$^-$		F	J^π: L=1 in (t,α).
2570[@] *20*	1/2$^+$		B	J^π: L=0 in (^{3}He,d).
2636.5 *5*			G	
2670[@] *20*	1/2$^+$		B	J^π: L=0 in (^{3}He,d).
2678[&] *10*	5/2$^-$,7/2,9/2$^+$		F	J^π: L=3,4 in (t,α).
2710[@] *20*	1/2$^+$		B	J^π: L=0 in (^{3}He,d).
2780[@] *20*			B	
2815.4 *6*			G	
2820[@] *20*			B	
2890[@] *20*	3/2$^+$,5/2$^+$		B	J^π: L=2 in (^{3}He,d).
2917.3 *5*			G	
3122[&] *10*	7/2$^+$,9/2$^+$		F	J^π: L=4 in (t,α).
3190[&] *10*	5/2$^-$,7/2$^-$		F	J^π: L=3 in (t,α).
3399.2 *6*			G	
3462[&] *10*	1/2$^-$,3/2$^-$		F	J^π: L=1 in (t,α).
3941.8 *6*			G	
4479.9 *6*			G	
4933.1 *7*			G	
5365.1 *9*			G	

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Adopted Levels, Gammas (continued)

^{125}Sb Levels (continued)

E(level)†	J^π	XREF	Comments
15172 *20*	$3/2^+$	A	IAR of 27.5-keV level in ^{125}Sn.
15379 *20*	$1/2^+$	A	IAR of 215.1-keV level in ^{125}Sn.
16417 *20*	$(5/2)^+$	A	IAR of 1258-keV level in ^{125}Sn.
16701 *20*	$(5/2)^+$	A	IAR of 1540-keV level in ^{125}Sn.
17869 *20*	$7/2^-$	A	IAR of 2676-keV level in ^{125}Sn.
18468 *20*	$(3/2^-)$	A	IAR of 3349-keV level in ^{125}Sn.
18537 *20*	$(3/2^-)$	A	IAR of 3421-keV level in ^{125}Sn.
18959 *20*	$(1/2)^-$	A	IAR of 3830-keV level in ^{125}Sn.
19118 *20*	$(1/2)^-$	A	The closest level of L=(1) is observed at 4060 keV in ^{124}Sn(d,p). Energy difference is too large.

† From a least-squares fit to adopted Eγ's for levels connecting with γ's. Others from (d,^{3}He), unless otherwise noted.

‡ $\gamma\gamma(\theta)$ and (pol γ)$\gamma(\theta)$ in ^{125}Sn β^- decay (9.52 min, 9.64 d).

\# From L=2 in (^{3}He,d), reaction strength favors $3/2^+$. Those states are considered to excite by 2d3/2 stripping, because the 332-keV level exhausts essentially all of the 2d5/2 strength in the (^{3}He,d) reaction.

@ From (^{3}He,d).

& From (t,α).

Adopted Levels, Gammas (continued)

$\gamma(^{125}Sb)$

E_i(level)	J^π_i	E_γ[†]	I_γ	E_f	J^π_f	Mult.[‡]	δ[‡]	α[@]	Comments
332.06	5/2+	331.96 *6*	100 *1*	0.0	7/2+	M1+E2	−0.24 *4*	0.0242	B(M1)(W.u.)=0.00356 *20*; B(E2)(W.u.)=1.3 *5* α(K)=0.0210 *3*; α(L)=0.00264 *4*; α(M)=0.000523 *8*; α(N+..)=0.0001108 *17* α(N)=0.0001008 *16*; α(O)=9.94×10^{-6} *15* E_γ,I_γ: Weighted average of ^{125}Sn β^- decay (9.64 d) and ^{125}Sn β^- decay (9.52 min).
642.97	3/2+,5/2+	310.96[#] *4*	29 *3*	332.06	5/2+				
		642.96[#] *2*	100.0 *19*	0.0	7/2+				
921.67	1/2+	278.56[#] *15*	12 *3*	642.97	3/2+,5/2+				
		589.61[#] *2*	100.0 *21*	332.06	5/2+				
1067.30	9/2+	1067.10 *5*	100	0.0	7/2+	M1+E2	−0.86 *18*	0.00134 *4*	α(K)=0.00117 *4*; α(L)=0.000142 *4*; α(M)=2.79×10^{-5} *7*; α(N+..)=5.93×10^{-6} *15* α(N)=5.39×10^{-6} *14*; α(O)=5.35×10^{-7} *14*
1089.50	11/2+	1089.15 *10*	100	0.0	7/2+	E2		0.001133 *16*	α(K)=0.000983 *14*; α(L)=0.0001211 *17*; α(M)=2.39×10^{-5} *4*; α(N+..)=5.05×10^{-6} α(N)=4.60×10^{-6} *7*; α(O)=4.52×10^{-7} *7*
1349.60	7/2+	258.25[&a] *10*	<6.4[&]	1089.50	11/2+				
		282.45 *5*	5.8 *6*	1067.30	9/2+				
		1017.50 *8*	100 *4*	332.06	5/2+	M1+E2	2.1 *+5−3*	0.00137 *3*	α(K)=0.001190 *23*; α(L)=0.000147 *3*; α(M)=2.89×10^{-5} *6*; α(N+..)=6.11×10^{-6} *11* α(N)=5.57×10^{-6} *10*; α(O)=5.48×10^{-7} *11* E_γ,I_γ: Weighted average of ^{125}Sn β^- decay (9.64 d) and ^{125}Sn β^- decay (9.52 min).
		1349.39 *6*	18.7 *8*	0.0	7/2+				E_γ,I_γ: Weighted average of ^{125}Sn β^- decay (9.64 d) and ^{125}Sn β^- decay (9.52 min).
1419.85	9/2+	1087.70 *10*	100 *16*	332.06	5/2+				
		1419.70 *5*	40.8 *8*	0.0	7/2+	D(+Q)	+0.01 *3*	0.000830 *12*	α(K)=0.000680 *10*; α(L)=8.11×10^{-5} *12*; α(M)=1.595×10^{-5} *23*; α(N+..)=5.30×10^{-5} α(N)=3.09×10^{-6} *5*; α(O)=3.09×10^{-7} *5*; α(IPF)=4.96×10^{-5} *7*
1483.78	3/2+,5/2+	840.83[#] *5*	40.4 *17*	642.97	3/2+,5/2+				
		1151.70[#] *8*	18.0 *17*	332.06	5/2+				
		1483.77[#] *2*	100.0 *17*	0.0	7/2+				
1591.57	7/2+,9/2+	524.30 *5*	31 *3*	1067.30	9/2+				
		1259.35 *10*	100 *6*	332.06	5/2+				
		1591.4 *2*	81 *6*	0.0	7/2+				
1700.69	1/2+,3/2,5/2+	779.5[#] *3*	13 *4*	921.67	1/2+				

Adopted Levels, Gammas (continued)

$\gamma(^{125}Sb)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π	Mult.‡	δ‡	α @	Comments
1700.69	1/2+,3/2,5/2+	1057.77# *21*	18 *4*	642.97	3/2+,5/2+				
		1368.61# *4*	100 *3*	332.06	5/2+				
1736.13	(3/2)+	386.52# *3*	14.3 *4*	1349.60	7/2+				
		1093.27# *14*	5.2 *4*	642.97	3/2+,5/2+				
		1404.06# *2*	100.0 *10*	332.06	5/2+				
		1736.07# *7*	4.4 *3*	0.0	7/2+				
1806.700	(9/2)+	386.6 *2*	3.3 *7*	1419.85	9/2+				
		1806.690 *16*	100.0 *20*	0.0	7/2+				
1889.848	9/2−,11/2−	469.85 *5*	34.7 *7*	1419.85	9/2+	E1(+M2)	+0.010 *24*	0.00292 *6*	α(K)=0.00254 *5*; α(L)=0.000307 *6*; α(M)=6.03×10^{-5} *12*; α(N+..)=1.274×10^{-5} *25* α(N)=1.160×10^{-5} *22*; α(O)=1.138×10^{-6} *22*
		800.28 *5*	24.9 *5*	1089.50	11/2+	E1(+M2)	0.18 *+11−8*	0.0011 *3*	α(K)=0.0010 *3*; α(L)=0.00012 *4*; α(M)=2.3×10^{-5} *7*; α(N+..)=4.8×10^{-6} *15* α(N)=4.4×10^{-6} *13*; α(O)=4.4×10^{-7} *13*
		822.48 *5*	100.0 *20*	1067.30	9/2+	E1		0.000849 *12*	α(K)=0.000740 *11*; α(L)=8.79×10^{-5} *13*; α(M)=1.727×10^{-5} *25*; α(N+..)=3.66×10^{-6} α(N)=3.33×10^{-6} *5*; α(O)=3.30×10^{-7} *5*
		1557.3 *1*	0.095 *23*	332.06	5/2+				
		1889.884 *16*	1.7 *1*	0.0	7/2+				
1913.77	3/2+,5/2	430.03# *14*	63 *16*	1483.78	3/2+,5/2+				
		1581.96# *20*	53 *11*	332.06	5/2+				
		1913.66# *10*	100 *11*	0.0	7/2+				
1947.45	(3/2)+	1025.46 *22*	12 *5*	921.67	1/2+				
		1304.42# *10*	11 *3*	642.97	3/2+,5/2+				
		1615.38# *3*	100 *3*	332.06	5/2+				
		1947.50# *13*	13 *3*	0.0	7/2+				
1971.25	15/2−	881.8 *3*	63.8 *8*	1089.50	11/2+	E3(+M2)	≥0.75	0.0045 *6*	α(K)=0.0039 *6*; α(L)=0.00053 *5*; α(M)=0.000104 *10*; α(N+..)=2.20×10^{-5} *22* α(N)=2.01×10^{-5} *20*; α(O)=1.94×10^{-6} *22* B(M2)(W.u.)≤0.00015; B(E3)(W.u.)≥0.10 Mult.,δ: From $^{124}Sn(^7Li,\alpha 2n\gamma)$.
		904.0 *3*	100.0 *25*	1067.30	9/2+	E3		0.00372 *6*	α(K)=0.00317 *5*; α(L)=0.000442 *7*; α(M)=8.80×10^{-5} *13*; α(N+..)=1.84×10^{-5} *3*

From ENSDF

$^{125}_{51}Sb_{74}$-5

Adopted Levels, Gammas (continued)

$\gamma(^{125}\mathrm{Sb})$ (continued)

E_i(level)	J^{π}_i	E_γ[†]	I_γ	E_f	J^{π}_f	Mult.[‡]	δ[‡]	α[@]	Comments
									α(N)=1.684×10^{-5} *24*; α(O)=1.601×10^{-6} *23* B(E3)(W.u.)=0.395 *23* Mult.: From ^{124}Sn(^{7}Li,$\alpha2n\gamma$).
1982.84	11/2$^-$	563.0 *2*	0.38 *5*	1419.85	9/2$^+$				
		893.40 *5*	7.04 *23*	1089.50	11/2$^+$	D+Q	0.29 *17*	0.0011 *5*	α(K)=0.0010 *4*; α(L)=0.00012 *6*; α(M)=2.3×10^{-5} *11*; α(N+..)=4.8×10^{-6} *22* α(N)=4.4×10^{-6} *20*; α(O)=4.4×10^{-7} *20* Mult.,δ: From $\gamma\gamma(\theta)$ (1980Ve04). Other: δ=0.3 *+9−6* (1977Kr13).
		915.55 *5*	100.0 *21*	1067.30	9/2$^+$	E1+M2	−0.02 *1*	0.000688 *10*	α(K)=0.000600 *9*; α(L)=7.11×10^{-5} *11*; α(M)=1.395×10^{-5} *21*; α(N+..)=2.96×10^{-6} *5* α(N)=2.69×10^{-6} *4*; α(O)=2.67×10^{-7} *4*
		1982.5 *2*	0.077 *23*	0.0	7/2$^+$				
1993.64	(15/2)$^+$	904.1 *3*	100	1089.50	11/2$^+$	E2		0.001712 *24*	α(K)=0.001482 *21*; α(L)=0.000186 *3*; α(M)=3.67×10^{-5} *6*; α(N+..)=7.75×10^{-6} *11* α(N)=7.06×10^{-6} *10*; α(O)=6.89×10^{-7} *10* E_γ: Weighted average of ^{238}U(^{12}C,Xγ) and ^{124}Sn(^{7}Li,$\alpha2n\gamma$). Mult.: From ^{124}Sn(^{7}Li,$\alpha2n\gamma$).
2002.140	9/2,11/2$^+$	652.6 *1*	2.12 *5*	1349.60	7/2$^+$				
		912.0[a] *5*	0.35 *10*	1089.50	11/2$^+$				
		934.63 *5*	10.86 *20*	1067.30	9/2$^+$				
		2002.134 *12*	100.0 *20*	0.0	7/2$^+$				
2112.1	(19/2$^-$)	140.9 *3*	100	1971.25	15/2$^-$	E2		0.490 *8*	α(K)=0.379 *6*; α(L)=0.0892 *15*; α(M)=0.0182 *3*; α(N+..)=0.00363 *6* α(N)=0.00336 *6*; α(O)=0.000267 *5* B(E2)(W.u.)=0.00658 *19* Mult.: From ^{124}Sn(^{7}Li,$\alpha2n\gamma$).
2113.0	1/2$^-$,3/2$^-$	2113[#] *1*	100	0.0	7/2$^+$				
2193.4	15/2$^+$	1103.7 *5*	100	1089.50	11/2$^+$				E_γ: Weighted average of ^{238}U(^{12}C,Xγ) and ^{124}Sn(^{7}Li,$\alpha2n\gamma$).
2201.023	9/2,11/2$^+$	311.3 *1*	22.5 *25*	1889.848	9/2$^-$,11/2$^-$				
		1111.4 *1*	35 *5*	1089.50	11/2$^+$				
		2201.002 *12*	100 *5*	0.0	7/2$^+$				
2217.2	(17/2)$^-$	105.1 *3*	28.9 *24*	2112.1	(19/2$^-$)				
		246.1 *3*	100 *4*	1971.25	15/2$^-$	M1		0.0524	α(K)=0.0453 *7*; α(L)=0.00570 *9*; α(M)=0.001128 *17*; α(N+..)=0.000239 *4* α(N)=0.000218 *4*; α(O)=2.16×10^{-5} *3* Mult.: From ^{124}Sn(^{7}Li,$\alpha2n\gamma$).
2227.0		1137.5 *5*	≈100	1089.50	11/2$^+$				

From ENSDF

$^{125}_{51}\mathrm{Sb}_{74}$-6

Adopted Levels, Gammas (continued)

γ(^{125}Sb) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[‡]	δ[‡]	α[@]	Comments
2227.0		2227.0 *5*	≈70	0.0	7/2$^+$				
2240.72	9/2$^+$	258.25[&a] *10*	<7.7[&]	1982.84	11/2$^-$				
		350.95 *5*	100.0 *18*	1889.848	9/2$^-$,11/2$^-$	D+Q	0.42 *3*		
		434.13 *10*	9.2 *7*	1806.700	(9/2)$^+$				
		890.5[a] *5*	3.3 *7*	1349.60	7/2$^+$				
		1151.23 *5*	43.4 *7*	1089.50	11/2$^+$	M1+E2	2.1 *+12−10*	0.00105 *6*	α(K)=0.00091 *6*; α(L)=0.000111 *6*; α(M)=2.20×10^{-5} *12*; α(N+..)=6.92×10^{-6} *19* α(N)=4.23×10^{-6} *22*; α(O)=4.19×10^{-7} *24*; α(IPF)=2.27×10^{-6} *8*
		1173.30 *5*	68.8 *15*	1067.30	9/2$^+$	M1+E2	≥1.1	0.00102 *5*	α(K)=0.00088 *5*; α(L)=0.000107 *5*; α(M)=2.12×10^{-5} *10*; α(N+..)=8.37×10^{-6} *15* α(N)=4.08×10^{-6} *19*; α(O)=4.04×10^{-7} *20*; α(IPF)=3.88×10^{-6} *12*
2253.39	9/2,11/2,13/2	270.60 *5*	100.0 *18*	1982.84	11/2$^-$				
		363.5 *2*	2.7 *5*	1889.848	9/2$^-$,11/2$^-$				
		903.5[a] *5*	12 *3*	1349.60	7/2$^+$				
		1163.84 *5*	29.1 *18*	1089.50	11/2$^+$				
2275.769	9/2,11/2$^+$	684.0 *2*	5.9 *11*	1591.57	7/2$^+$,9/2$^+$				
		1186.15 *15*	4.8 *5*	1089.50	11/2$^+$				
		1208.4 *2*	4.3 *11*	1067.30	9/2$^+$				
		2275.748 *10*	100.0 *21*	0.0	7/2$^+$				
2288.21	(11/2$^+$)	286.2 *2*	2.2 *4*	2002.140	9/2,11/2$^+$				
		1198.70 *15*	5.8 *4*	1089.50	11/2$^+$				
		1220.88 *10*	100.0 *22*	1067.30	9/2$^+$	M1+E2	≥9.9	0.000901 *13*	α(K)=0.000774 *11*; α(L)=9.44×10^{-5} *14*; α(M)=1.86×10^{-5} *3*; α(N+..)=1.349×10^{-5} *1* α(N)=3.59×10^{-6} *5*; α(O)=3.54×10^{-7} *5*; α(IPF)=9.55×10^{-6} *14*
2325.0	(19/2)$^+$	107.9 *3*	55 *3*	2217.2	(17/2)$^-$	[E1]		0.152	B(E1)(W.u.)=1.50×10^{-6} *14* E_γ: From ^{124}Sn(^{7}Li,α2nγ).
		131.59 *17*	55 *3*	2193.4	15/2$^+$	E2		0.624	α(K)=0.476 *7*; α(L)=0.1185 *18*; α(M)=0.0243 *4*; α(N+..)=0.00481 *8* α(N)=0.00446 *7*; α(O)=0.000350 *6* B(E2)(W.u.)=2.68 *25* E_γ: Weighted average of ^{238}U(^{12}C,Xγ) and ^{124}Sn(^{7}Li,α2nγ). I_γ: From ^{124}Sn(^{7}Li,α2nγ). Mult.: From ^{124}Sn(^{7}Li,α2nγ).

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Adopted Levels, Gammas (continued)

γ(^{125}Sb) (continued)

E_i(level)	J^π_i	E_γ†	I_γ	E_f	J^π_f	Mult.‡	α@	Comments
2325.0	(19/2)$^+$	331.36 *24*	100 *5*	1993.64	(15/2)$^+$	(E2)	0.0269	α(K)=0.0226 *4*; α(L)=0.00345 *5*; α(M)=0.000690 *10*; α(N+..)=0.0001422 *21* α(N)=0.0001304 *19*; α(O)=1.178×10^{-5} *17* B(E2)(W.u.)=0.048 *5* E_γ: Weighted average of ^{238}U(^{12}C,Xγ) and ^{124}Sn(^{7}Li,α2nγ). I_γ: From ^{124}Sn(^{7}Li,α2nγ). Mult.: M1 or E2 from ^{124}Sn(^{7}Li,α2nγ). Placement in the level scheme requires ΔJ=2.
2471.0	(23/2)$^+$	146.02 *19*	100	2325.0	(19/2)$^+$	E2	0.432	α(K)=0.336 *5*; α(L)=0.0770 *12*; α(M)=0.01573 *24*; α(N+..)=0.00313 *5* α(N)=0.00290 *5*; α(O)=0.000232 *4* B(E2)(W.u.)=0.59 *4* E_γ: Weighted average of ^{238}U(^{12}C,Xγ) and ^{124}Sn(^{7}Li,α2nγ). Mult.: From ^{124}Sn(^{7}Li,α2nγ).
2483.8		490.2 *3*	100	1993.64	(15/2)$^+$			
2488.5		295.1 *4*	100	2193.4	15/2$^+$			
2636.5		152.7 *3*	100	2483.8				
2815.4		331.6	100	2483.8				
2917.3		446.3 *3*	100	2471.0	(23/2)$^+$			
3399.2		481.8 *3*	100	2917.3				
3941.8		542.5 *3*	100 *33*	3399.2				
		1024.7 *5*	22 *8*	2917.3				
4479.9		538.1 *4*	1.0×10^2 *3*	3941.8				
		1080.5 *5*	60 *20*	3399.2				
4933.1		452.9 *5*	100 *25*	4479.9				
		991.5 *5*	38 *15*	3941.8				
5365.1		432.0 *5*	100	4933.1				

† From ^{125}Sn β^- decay (9.64 d), unless otherwise noted.

‡ From $\gamma\gamma(\theta)$, (pol γ)$\gamma(\theta)$ in ^{125}Sn β^- decay (9.52 min, 9.64 d).

From ^{125}Sn β^- decay (9.52 min).

@ 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.

& Multiply placed with undivided intensity.

^{a} Placement of transition in the level scheme is uncertain.

From ENSDF

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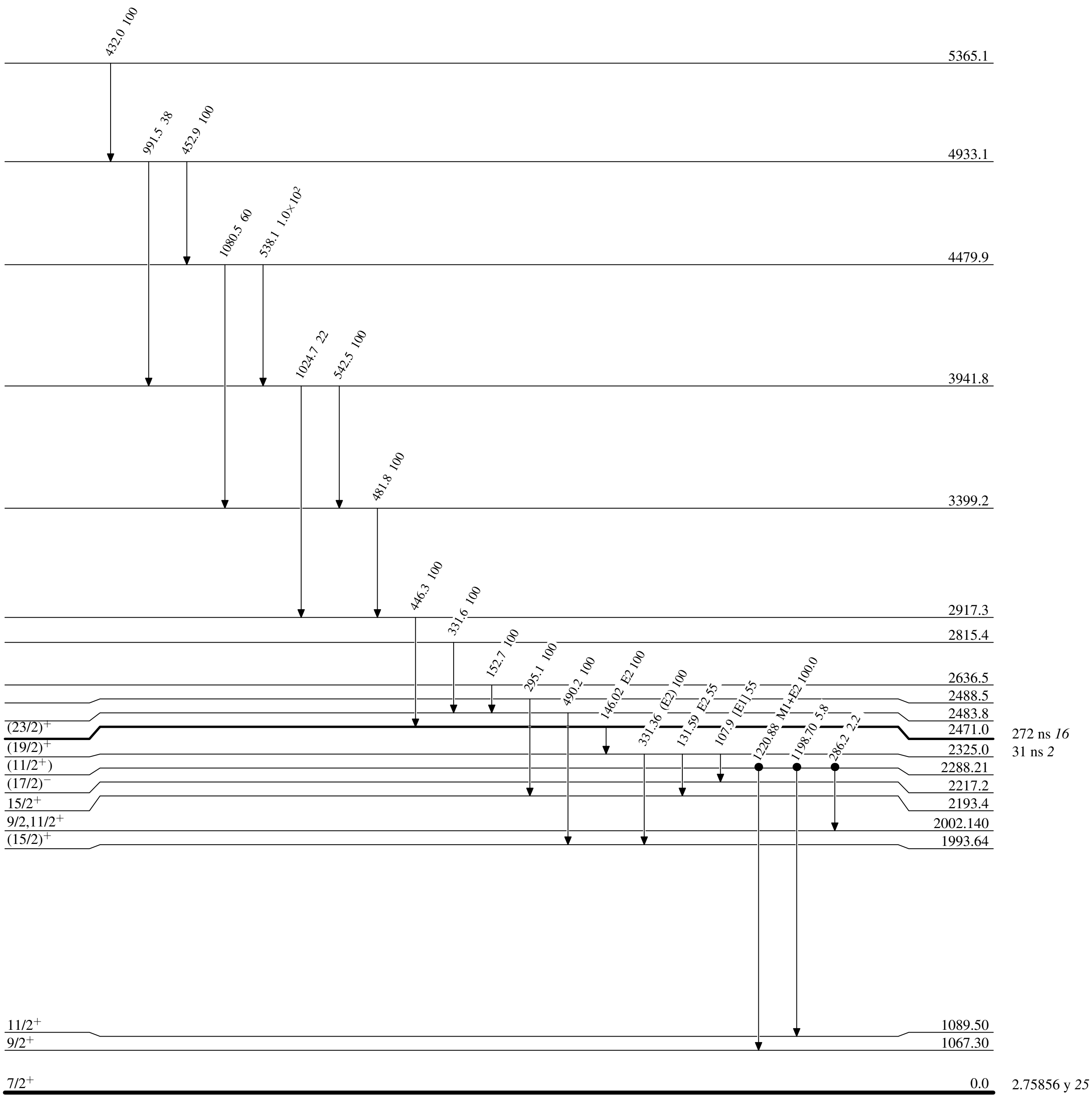
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

● Coincidence

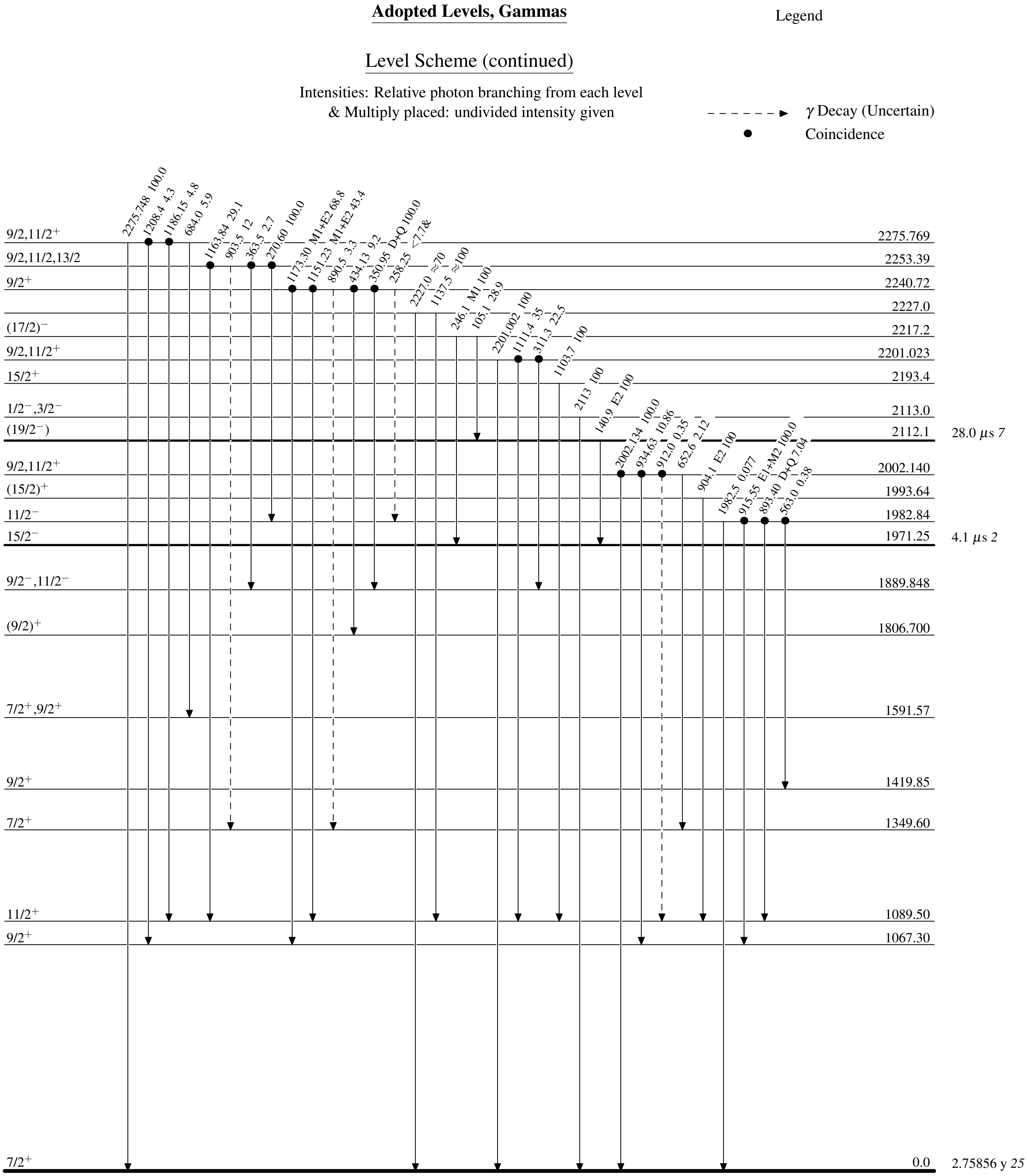


$^{125}_{51}Sb_{74}$

Adopted Levels, Gammas

Level Scheme (continued)

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



$^{125}_{51}Sb_{74}$

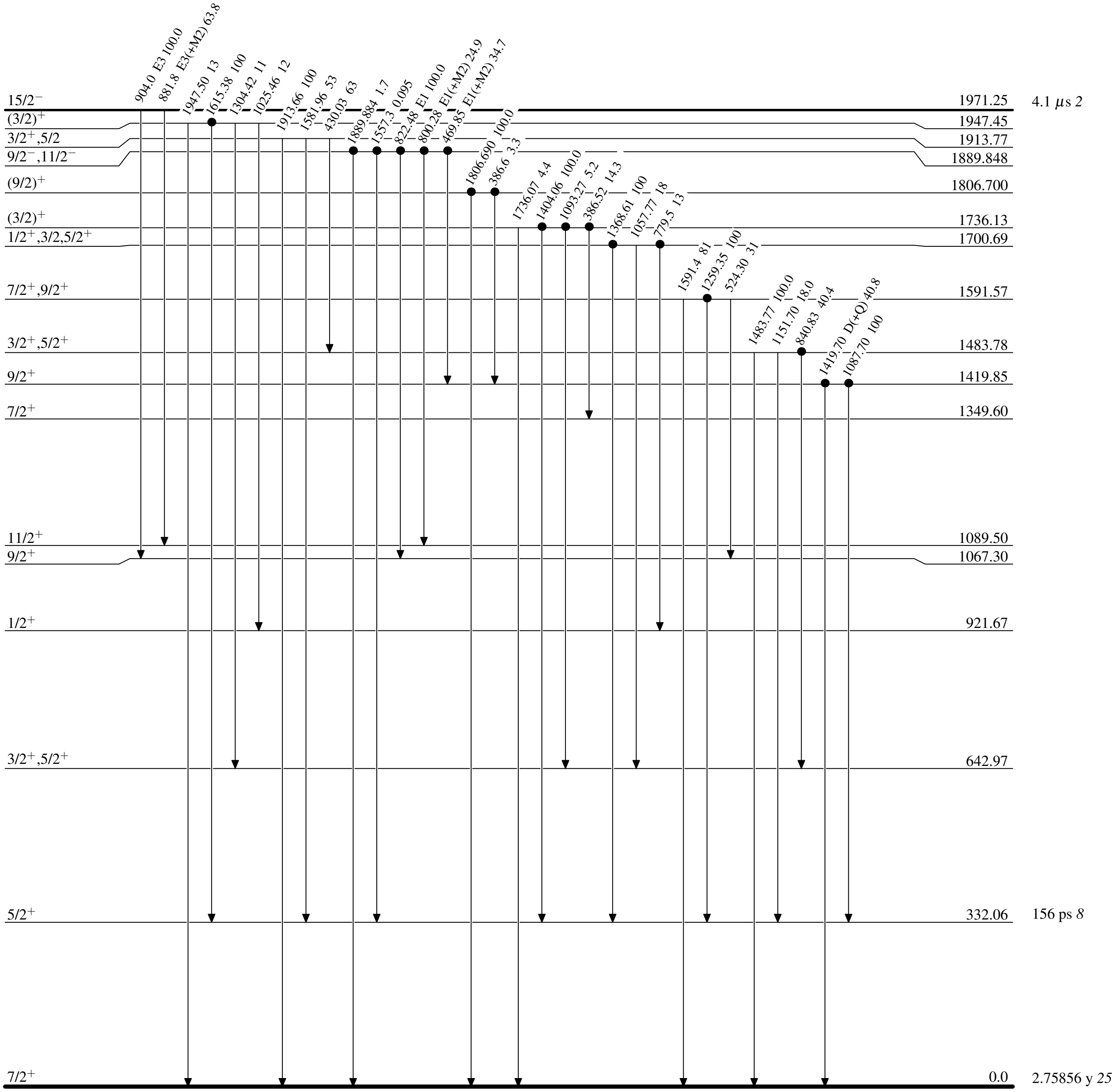
Adopted Levels, Gammas

Legend

Level Scheme (continued)

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

● Coincidence



$^{125}_{51}Sb_{74}$

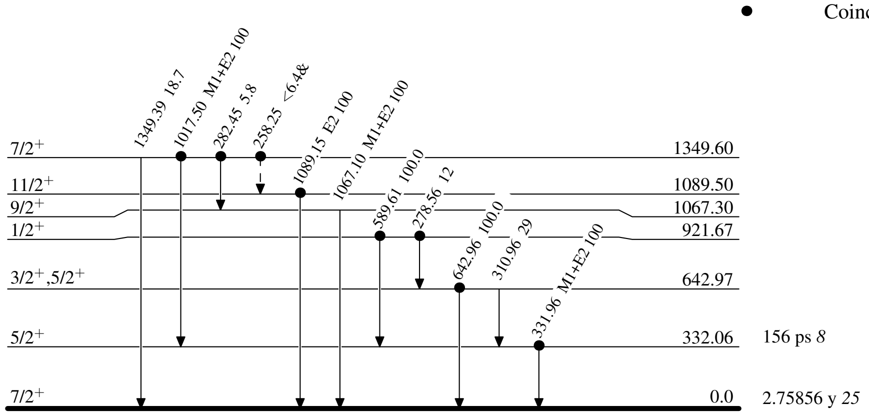
Adopted Levels, Gammas

Level Scheme (continued)

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

Legend

γ Decay (Uncertain)
Coincidence



$^{125}_{51}Sb_{74}$