^{119}Sn(α,2nγ),^{121}Sb(d,2nγ) 1979Ha47,1979Ha18

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

1979Ha18: E=19.8-27 MeV; γ singles, excitation functions, $\gamma\gamma$ coincidence, linear polarization; deduced the half-life of the 443-keV level.

1979Ha47: semi γ singles, excitation functions, $\gamma\gamma$-coincidence, I$\gamma(\theta)$; solenoidal electron spectrometer was used for ce. Also ^{121}Sb(d,2nγ) E(d)=13.5 MeV was studied.

1980Io01: ^{118}Sn(α,2nγ) E=24 MeV; ^{121}Sb(d,2nγ) E=12 MeV; beam delayed γ coincidence and differentially perturbed angular distribution; deduced the $T_{1/2}$ and g-factor of the 443-keV level.

The level scheme is that proposed by 1979Ha47, however, a slight modification is made to place the cascading 244.8γ, 219.4γ directly on the 293.98 level, resulting in a level at 538.7 keV interconnecting the 293.89 keV, 11/2$^-$ and the 758.4 keV, (7/2$^-$) states, which is established in ^{121}I $\varepsilon+\beta^+$ decay. The 1482 keV level was removed to accommodate with other in-beam studies.

^{121}Te Levels

E(level)	J$^\pi$&	$T_{1/2}$	Comments
0.0	1/2$^+$		
212.18@ *9*	3/2$^+$		Additional information 1.
293.98† *3*	11/2$^-$	164.2 d *8*	Additional information 2.
438.57† *9*	(9/2)$^-$		
443.08# *10*	7/2$^+$	85.3 ns *5*	μ=+0.738 *10* μ: from DPAD (1980Io01). $T_{1/2}$: from beam-γ(t) (1980Io01); other: 86 ns *6* (1979Ha47).
475.24@ *9*	(5/2)$^+$		
532.14 *22*	3/2$^+$,5/2$^+$		
538.79† *10*	(7/2$^-$)		
594.38‡ *10*	(5/2)$^+$		
682.98@ *9*	(7/2$^+$)		
758.25 *19*	(7/2$^-$)		
830.50# *14*	(9/2)$^+$		
887.7‡ *4*			
925.58† *10*	(15/2)$^-$		
975.28† *9*	(13/2)$^-$		
1018.41@ *17*	(9/2$^+$)		
1080.26# *14*	(11/2$^+$)		
1171.0‡ *4*			
1177.48 *16*	(11/2$^-$)		This level is proposed as 13/2$^-$ in 1h$_{11/2}$ band in this reaction (1979Ha47), but reinterpreted as band head of γ band based on 1h$_{11/2}$ in ^{116}Cd(^{9}Be,4nγ).
1207.99@ *13*	(11/2$^+$)		
1419.44# *16*	(13/2$^+$)		
1599.58† *13*	(17/2$^-$)		
1654.28† *13*	(19/2)$^-$		
1711.85# *17*	(15/2$^+$)		
1806.69@ *24*	(15/2$^+$)		
1851.48? *19*			
2015.98† *14*	(21/2)$^-$		
2070.3# *3*	(17/2$^+$)		
2281.48 *17*	(23/2$^+$)		

Continued on next page (footnotes at end of table)

^{119}Sn(α,2nγ),^{121}Sb(d,2nγ) 1979Ha47,1979Ha18 (continued)

^{121}Te Levels (continued)

E(level)	J^{π}[&]
2332.08[†] *17*	$(23/2)^-$
2952.8? *4*	23/2,25/2

[†] Band(A): band built on $1h_{11/2}$.
[‡] Band(B): band built on $2d_{5/2}$.
[#] Band(C): band built on $1g_{7/2}$.
[@] Band(D): band built on $2d_{3/2}$.
[&] From rotational band based on shell model configurations; band structures evidenced from M1, M1+E2(D(+Q)) cascades, and E2(Q) cross over transitions, and also from other in-beam studies.

$\gamma(^{121}Te)$

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[@]	α[b]	Iγ[‡]	Comments
144.6 *1*	36.8 *4*	438.57	$(9/2)^-$	293.98	$11/2^-$	M1+E2	−0.29 *10*	0.259 *13*	41.1 *3*	ce(K)/(γ+ce)=0.175 *6*; ce(L)/(γ+ce)=0.025 *3*; ce(M)/(γ+ce)=0.0050 *6*; ce(N+)/(γ+ce)=0.00109 *11* ce(N)/(γ+ce)=0.00099 *11*; ce(O)/(γ+ce)=0.000103 *9* Mult.: A_2=+0.14 *6*, A_4=0.00 *8*, L(p)=−0.31 *5*; α(K)exp=0.17 *2*, K/L=7.6 *10*.
189.6[&] *2*	1.2 *3*	1207.99	$(11/2^+)$	1018.41	$(9/2^+)$				0.2 *1*	
202.1 *2*	1.1 *3*	1177.48	$(11/2^-)$	975.28	$(13/2)^-$					Iγ: obscured or disturbed by other γ in ^{121}Sb(d,2nγ).
207.7[&] *2*	2.8 *6*	682.98	$(7/2^+)$	475.24	$(5/2)^+$				3.4 *4*	
212.2 *1*	100.0 *7*	212.18	$3/2^+$	0.0	$1/2^+$	M1+E2	+0.226 *8*	0.0869	100	ce(K)/(γ+ce)=0.0687 *9*; ce(L)/(γ+ce)=0.00903 *13*; ce(M)/(γ+ce)=0.00181 *3*; ce(N+)/(γ+ce)=0.000395 *6* ce(N)/(γ+ce)=0.000356 *6*; ce(O)/(γ+ce)=3.83×10^{-5} *6* Mult.: A_2=−0.03 *3*, A_4=0.00 *4*, L(p)=−0.24 *3*; α(K)exp=0.076 *4*, K/L=7.8 *8*.
219.4 *2*	1.8 *3*	758.25	$(7/2^-)$	538.79	$(7/2^-)$				4.6 *5*	
230.9 *1*	57.3 *5*	443.08	$7/2^+$	212.18	$3/2^+$	E2		0.0919	51.3 *8*	ce(K)/(γ+ce)=0.0687 *9*; ce(L)/(γ+ce)=0.01240 *18*; ce(M)/(γ+ce)=0.00253 *4*; ce(N+)/(γ+ce)=0.000532 *8* ce(N)/(γ+ce)=0.000486 *7*; ce(O)/(γ+ce)=4.65×10^{-5} *7* Mult.: A_2=+0.19 *4*, A_4=−0.03 *6*, L(p)=+0.30 *8*; α(K)exp=0.077 *4*, K/L=5.0 *6*.
244.8 *1*	14.5 *4*	538.79	$(7/2^-)$	293.98	$11/2^-$	[E2]		0.0755	28.2 *3*	ce(K)/(γ+ce)=0.0575 *8*; ce(L)/(γ+ce)=0.01012 *15*; ce(M)/(γ+ce)=0.00206 *3*; ce(N+)/(γ+ce)=0.000435 *7* ce(N)/(γ+ce)=0.000396 *6*; ce(O)/(γ+ce)=3.82×10^{-5} *6* Mult.: A_2=+0.04 *5*, A_4=−0.07 *6*; α(K)exp=0.043 *6*, M1+E2 was assigned (1979Ha47).
249.8[&] *2*	1.2 *3*	1080.26	$(11/2^+)$	830.50	$(9/2)^+$				0.5 *1*	
263.2 *2*	1.3 *4*	475.24	$(5/2)^+$	212.18	$3/2^+$				2.2 *2*	
265.5 *1*	7.0 *4*	2281.48	$(23/2^+)$	2015.98	$(21/2)^-$	(E1)		0.01307		α(K)=0.01132 *16*; α(L)=0.001403 *20*; α(M)=0.000278 *4*; α(N+..)=6.05×10^{-5} *9* α(N)=5.47×10^{-5} *8*; α(O)=5.81×10^{-6} *9* I$_\gamma$: not determined in ^{121}Sb(d,2nγ)). Mult.: A_2=−0.31 *12*, A_4=0.00 *15*, L(p)=−0.31 *9*. δ: −0.03 *7* (if D+Q).
283.3 *2*	1.7 *4*	1171.0		887.7						Iγ: obscured or disturbed by other γ in ^{121}Sb(d,2nγ).
292.3 *3*	3.1 *5*	1711.85	$(15/2^+)$	1419.44	$(13/2^+)$				7.2 *2*	Iγ: doublet(293.3γ+292.3γ) in ^{121}Sb(d,2nγ).
293.3 *3*	4.4 *5*	887.7		594.38	$(5/2)^+$				7.2 *2*	Iγ: doublet (293.3γ+292.3γ) in ^{121}Sb(d,2nγ). Mult.: A_2=−0.47 *10*, A_4=−0.17 *16* for (292.3γ+293.3γ) α(K)exp=0.024 *4* for (292.3γ+293.3γ).
316.1 *1*	26.9 *7*	2332.08	$(23/2)^-$	2015.98	$(21/2)^-$	M1+E2	−0.06 *4*	0.0298	1.6 *3*	ce(K)/(γ+ce)=0.0251 *4*; ce(L)/(γ+ce)=0.00316 *5*; ce(M)/(γ+ce)=0.000629 *9*; ce(N+)/(γ+ce)=0.0001381 *20* ce(N)/(γ+ce)=0.0001246 *18*; ce(O)/(γ+ce)=1.356×10^{-5} *20*

^{119}Sn(α,2nγ),^{121}Sb(d,2nγ) 1979Ha47,1979Ha18 (continued)

γ(^{121}Te) (continued)

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[@]	α[b]	Iγ[‡]	Comments
										ce(N)/(γ+ce)=0.0001246 *18*; ce(O)/(γ+ce)=1.356×10^{-5} *20* Mult.: A_2=−0.38 *5*, A_4=0.00 *7*, L(p)=−0.27 *4*; α(K)exp=0.024 *2*, K/L=8 *2*.
319.8[c] *3*	4.0[c] *6*	532.14	3/2$^+$,5/2$^+$	212.18	3/2$^+$				6.2 *3*	Iγ: Multiply-placed γ ray with intensity not divided in ^{121}Sb(d,2nγ).
319.8[c] *3*	4.0[c] *6*	758.25	(7/2$^-$)	438.57	(9/2)$^-$				6.2 *3*	
339.2 *1*	5.2 *5*	1419.44	(13/2$^+$)	1080.26	(11/2$^+$)				1.3 *3*	
358.7[e] *2*	1.8 *5*	2070.3	(17/2$^+$)	1711.85	(15/2$^+$)					Iγ: not determined in ^{121}Sb(d,2nγ)).
361.7 *1*	71.0 *9*	2015.98	(21/2)$^-$	1654.28	(19/2)$^-$	M1+E2	−0.15 *4*	0.0211	4.2 *2*	ce(K)/(γ+ce)=0.01789 *25*; ce(L)/(γ+ce)=0.00225 *4*; ce(M)/(γ+ce)=0.000449 *7*; ce(N+)/(γ+ce)=9.85×10^{-5} *14* ce(N)/(γ+ce)=8.89×10^{-5} *13*; ce(O)/(γ+ce)=9.67×10^{-6} *14* Mult.: A_2=−0.52 *4*, A_4=−0.01 *5*, L(p)=−0.20 *3*; α(K)exp=0.019 *2*.
382.2 *1*	6.1 *6*	594.38	(5/2)$^+$	212.18	3/2$^+$				11.0 *5*	
387.4 *1*	21.6 *7*	830.50	(9/2)$^+$	443.08	7/2$^+$	M1+E2	−4.6 *6*	0.01728	15.4 *4*	ce(K)/(γ+ce)=0.01434 *20*; ce(L)/(γ+ce)=0.00212 *3*; ce(M)/(γ+ce)=0.000428 *6*; ce(N+)/(γ+ce)=9.17×10^{-5} *13* ce(N)/(γ+ce)=8.33×10^{-5} *12*; ce(O)/(γ+ce)=8.47×10^{-6} *12* Mult.: A_2=−0.27 *5*, A_4=+0.14 *7*, L(p)=+0.19 *2*; α(K)exp=0.014 *4*.
416.4 *1*	14.0 *6*	2015.98	(21/2)$^-$	1599.58	(17/2$^-$)	(E2)		0.01388		α(K)=0.01174 *17*; α(L)=0.001717 *24*; α(M)=0.000346 *5*; α(N+..)=7.42×10^{-5} *11* α(N)=6.74×10^{-5} *10*; α(O)=6.88×10^{-6} *10* Iγ: not determined in ^{121}Sb(d,2nγ)). Mult.: A_2=+0.47 *9*, A_4=−0.02 *13*, L(p)=+0.93 *24*; α(K)exp=0.013 *3*.
[x]419.6 *3*	2.5 *5*								2.1 *3*	
470.8 *1*	23.3 *6*	682.98	(7/2$^+$)	212.18	3/2$^+$	(E2)			26.0 *5*	ce(K)/(γ+ce)=0.00815 *12*; ce(L)/(γ+ce)=0.001156 *17*; ce(M)/(γ+ce)=0.000232 *4*; ce(N+)/(γ+ce)=5.01×10^{-5} *7* ce(N)/(γ+ce)=4.54×10^{-5} *7*; ce(O)/(γ+ce)=4.68×10^{-6} *7* Mult.: A_2=+0.24 *7*, A_4=−0.03 *9*, L(p)=+0.39 *15*; α(K)exp(475.2γ + 470.8γ)=0.0074 *11*.
475.2 *1*	19.6 *5*	475.24	(5/2)$^+$	0.0	1/2$^+$	(E2)			29.4 *5*	ce(K)/(γ+ce)=0.00794 *11*; ce(L)/(γ+ce)=0.001124 *16*; ce(M)/(γ+ce)=0.000226 *4*; ce(N+)/(γ+ce)=4.87×10^{-5} *7* ce(N)/(γ+ce)=4.41×10^{-5} *7*; ce(O)/(γ+ce)=4.56×10^{-6} *7* Mult.: A_2=+0.24 *6*, A_4=−0.02 *8*, L(p)=+0.40 *13*; α(K)exp(475.2γ + 470.8γ)=0.0074 *11*.
525.0 *1*	19.2 *7*	1207.99	(11/2$^+$)	682.98	(7/2$^+$)	(E2)			11.9 *4*	ce(K)/(γ+ce)=0.00603 *9*; ce(L)/(γ+ce)=0.000835 *12*; ce(M)/(γ+ce)=0.0001674 *24*; ce(N+)/(γ+ce)=3.62×10^{-5} *5*

$^{121}_{52}Te_{69}$-4

^{119}Sn(α,2nγ),^{121}Sb(d,2nγ) 1979Ha47,1979Ha18 (continued)

γ(^{121}Te) (continued)

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[@]	Iγ[‡]	Comments
									ce(N)/(γ+ce)=3.28×10^{-5} *5*; ce(O)/(γ+ce)=3.41×10^{-6} *5* Mult.: A_2=+0.22 *6*, A_4=−0.09 *8*, L(p)=+0.32 *13*.
532.3 *3*	9.5 *6*	532.14	3/2$^+$,5/2$^+$	0.0	1/2$^+$			9.5 *4*	
536.6 *2*	13.1 *6*	975.28	(13/2)$^-$	438.57	(9/2)$^-$	(E2)		6.0 *4*	ce(K)/(γ+ce)=0.00568 *8*; ce(L)/(γ+ce)=0.000783 *11*; ce(M)/(γ+ce)=0.0001570 *22*; ce(N+)/(γ+ce)=3.39×10^{-5} *5* ce(N)/(γ+ce)=3.07×10^{-5} *5*; ce(O)/(γ+ce)=3.20×10^{-6} *5* E_γ: adopted from level scheme (authors gave a value of 535.6 keV in their table). Mult.: A_2=+0.21 *11*, A_4=+0.04 *15*, L(p)=+0.37 *22*.
543.2 *2*	10.6 *7*	1018.41	(9/2$^+$)	475.24	(5/2)$^+$	(Q)		10.4 *4*	Mult.: A_2=+0.25 *12*, A_4=−0.33 *17*.
588.8 *2*	23.4 *8*	1419.44	(13/2$^+$)	830.50	(9/2)$^+$	(E2)		10.9 *4*	ce(K)/(γ+ce)=0.00444 *7*; ce(L)/(γ+ce)=0.000601 *9*; ce(M)/(γ+ce)=0.0001203 *17*; ce(N+)/(γ+ce)=2.61×10^{-5} *4* ce(N)/(γ+ce)=2.36×10^{-5} *4*; ce(O)/(γ+ce)=2.47×10^{-6} *4* Mult.: A_2=+0.26 *5*, A_4=−0.08 *7*, L(p)=+0.40 *11*.
594.4 *3*	13.6 *7*	594.38	(5/2)$^+$	0.0	1/2$^+$	(E2)		9.2 *6*	ce(K)/(γ+ce)=0.00433 *6*; ce(L)/(γ+ce)=0.000585 *9*; ce(M)/(γ+ce)=0.0001171 *17*; ce(N+)/(γ+ce)=2.54×10^{-5} *4* ce(N)/(γ+ce)=2.30×10^{-5} *4*; ce(O)/(γ+ce)=2.41×10^{-6} *4* Iγ: obscured or disturbed by other γ in ^{121}Sb(d,2nγ).
598.7 *2*	20.7 *8*	1806.69	(15/2$^+$)	1207.99	(11/2$^+$)	(Q)		11.8 *6*	Mult.: A_2=+0.24 *12*, A_4=+0.23 *17*, L(p)=+0.39 *15*; Mult.: A_2=+0.35 *9*, A_4=+0.01 *12*.
624.3[&] *3*	21.9 *14*	1599.58	(17/2$^-$)	975.28	(13/2)$^-$	(E2)		3.3 *4*	ce(K)/(γ+ce)=0.00381 *6*; ce(L)/(γ+ce)=0.000511 *8*; ce(M)/(γ+ce)=0.0001022 *15*; ce(N+)/(γ+ce)=2.22×10^{-5} *4* ce(N)/(γ+ce)=2.00×10^{-5} *3*; ce(O)/(γ+ce)=2.11×10^{-6} *3* Mult.: A_2=+0.43 *8*, A_4=−0.02 *12*, L(p)=+0.81 *20*.
631.6[d] *1*	207.5[d] *30*	925.58	(15/2)$^-$	293.98	11/2$^-$	E2		45.0 *12*	ce(K)/(γ+ce)=0.00370 *6*; ce(L)/(γ+ce)=0.000495 *7*; ce(M)/(γ+ce)=9.89×10^{-5} *14*; ce(N+)/(γ+ce)=2.15×10^{-5} *3* ce(N)/(γ+ce)=1.94×10^{-5} *3*; ce(O)/(γ+ce)=2.05×10^{-6} *3* Iγ: Multiply-placed γ ray with intensity not divided in ^{121}Sb(d,2nγ). Mult.: A_2=+0.33 *4*, A_4=−0.08 *4*, L(p)=+0.55 *9*; α(K)exp=0.0037 *4*.
631.6[d] *1*	19.5[d] *10*	1711.85	(15/2$^+$)	1080.26	(11/2$^+$)				
637.2 *1*	25.4 *13*	1080.26	(11/2$^+$)	443.08	7/2$^+$	(E2)		14.2 *6*	ce(K)/(γ+ce)=0.00362 *5*; ce(L)/(γ+ce)=0.000483 *7*; ce(M)/(γ+ce)=9.66×10^{-5} *14*; ce(N+)/(γ+ce)=2.10×10^{-5} *3* ce(N)/(γ+ce)=1.90×10^{-5} *3*; ce(O)/(γ+ce)=2.00×10^{-6} *3* Mult.: A_2=+0.33 *7*, A_4=+0.03 *11*, L(p)=+0.61 *16*.
650.9 *2*	9.6 *7*	2070.3	(17/2$^+$)	1419.44	(13/2$^+$)	(Q)		2.0 *3*	Iγ: obscured or disturbed by other γ in ^{121}Sb(d,2nγ). Mult.: A_2=+0.46 *12*, A_4=−0.10 *18*.
674.0[c] *1*	35.2[c] *11*	1599.58	(17/2$^-$)	925.58	(15/2)$^-$	(M1+E2)	−0.9 *5*	5.4 *4*	ce(K)/(γ+ce)=0.0036 *3*; ce(L)/(γ+ce)=0.000454 *23*; ce(M)/(γ+ce)=9.0×10^{-5} *5*; ce(N+)/(γ+ce)=1.98×10^{-5} *11* ce(N)/(γ+ce)=1.78×10^{-5} *9*; ce(O)/(γ+ce)=1.93×10^{-6} *12*

$^{121}_{52}Te_{69}$-5

^{119}Sn(α,2nγ),^{121}Sb(d,2nγ) 1979Ha47,1979Ha18 (continued)

$\gamma(^{121}Te)$ (continued)

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	Iγ[‡]	Comments
								Iγ: Multiply-placed γ ray with intensity not divided in ^{121}Sb(d,2nγ). Mult.: A_2=−0.98 *5*, A_4=+0.07 *8*, L(p)=+0.14 *4*; α(K)exp=0.0039 *9*.
674.0[ce] *1*	35.2[c] *11*	1851.48?		1177.48	(11/2$^-$)		7.5 *4*	Iγ: Multiply-placed γ ray with intensity not divided in ^{121}Sb(d,2nγ).
677.8[&] *3*	11.6 *10*	2332.08	(23/2)$^-$	1654.28	(19/2)$^-$	(Q)	3.9 *3*	Mult.: A_2=+0.52 *12*, A_4=+0.06 *21*.
681.3 *1*	45.0 *13*	975.28	(13/2)$^-$	293.98	11/2$^-$	M1+E2	21.4 *6*	ce(K)/(γ+ce)=0.0035 *4*; ce(L)/(γ+ce)=0.00044 *4*; ce(M)/(γ+ce)=8.7×10^{-5} *7*; ce(N+)/(γ+ce)=1.91×10^{-5} *16* ce(N)/(γ+ce)=1.72×10^{-5} *15*; ce(O)/(γ+ce)=1.86×10^{-6} *19* Mult.: A_2=−0.64 *4*, A_4=+0.20 *6*, L(p)=+0.04 *4*; α(K)exp=0.0030 *7*. δ: −0.43≤δ≤−0.28 or −2.3≤δ≤−1.6. δ value given in the authors′ table for the 677.8 keV, shown as (E2). was interpreted as the data for this γ ray.
[x]724.4 *3*	9.9 *12*						7.4 *6*	This γ was placed from 1482 keV level in 1979Ha47.
728.7 *1*	131.4 *18*	1654.28	(19/2)$^-$	925.58	(15/2)$^-$	E2	16.1 *6*	ce(K)/(γ+ce)=0.00259 *4*; ce(L)/(γ+ce)=0.000338 *5*; ce(M)/(γ+ce)=6.75×10^{-5} *10*; ce(N+)/(γ+ce)=1.469×10^{-5} *21* ce(N)/(γ+ce)=1.328×10^{-5} *19*; ce(O)/(γ+ce)=1.411×10^{-6} *20* Mult.: A_2=+0.31 *3*, A_4=−0.11 *4*, L(p)=+0.47 *7*; α(K)exp=0.0023 *3*.
739.0[&] *2*	13.4 *11*	1177.48	(11/2$^-$)	438.57	(9/2)$^-$		4.0 *3*	Mult.: A_2=+0.08 *12*, A_4=+0.06 *22*.
936.8[a] *3*		2952.8?	23/2,25/2	2015.98	(21/2)$^-$			

[†] I(γ′s) are relative to I(212.2γ)=100 at θ=125° and E(α)=27 MeV.
[‡] From 1979Ha47: Intensity is normalized to 100 for 212.2γ in ^{121}Sb(d,2nγ).
[#] Deduced from α(K)exp, K/L, $\gamma(\theta)$ and linear polarization; angular distribution coefficients A_2, A_4 values, linear polarization L(p) values in 1979Ha47, and α(K)exp values are given in comments.
[@] Center values and symmetric uncertainty value have been deduced by evaluators from upper and lower limits in ^{119}Sn(α,2nγ).
[&] Influenced by γ rays not listed with these data; but detail is not given in 1979Ha47.
[a] Doublet; deduced from coincidence.
[b] 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.
[c] Multiply placed with undivided intensity.
[d] Multiply placed with intensity suitably divided.
[e] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

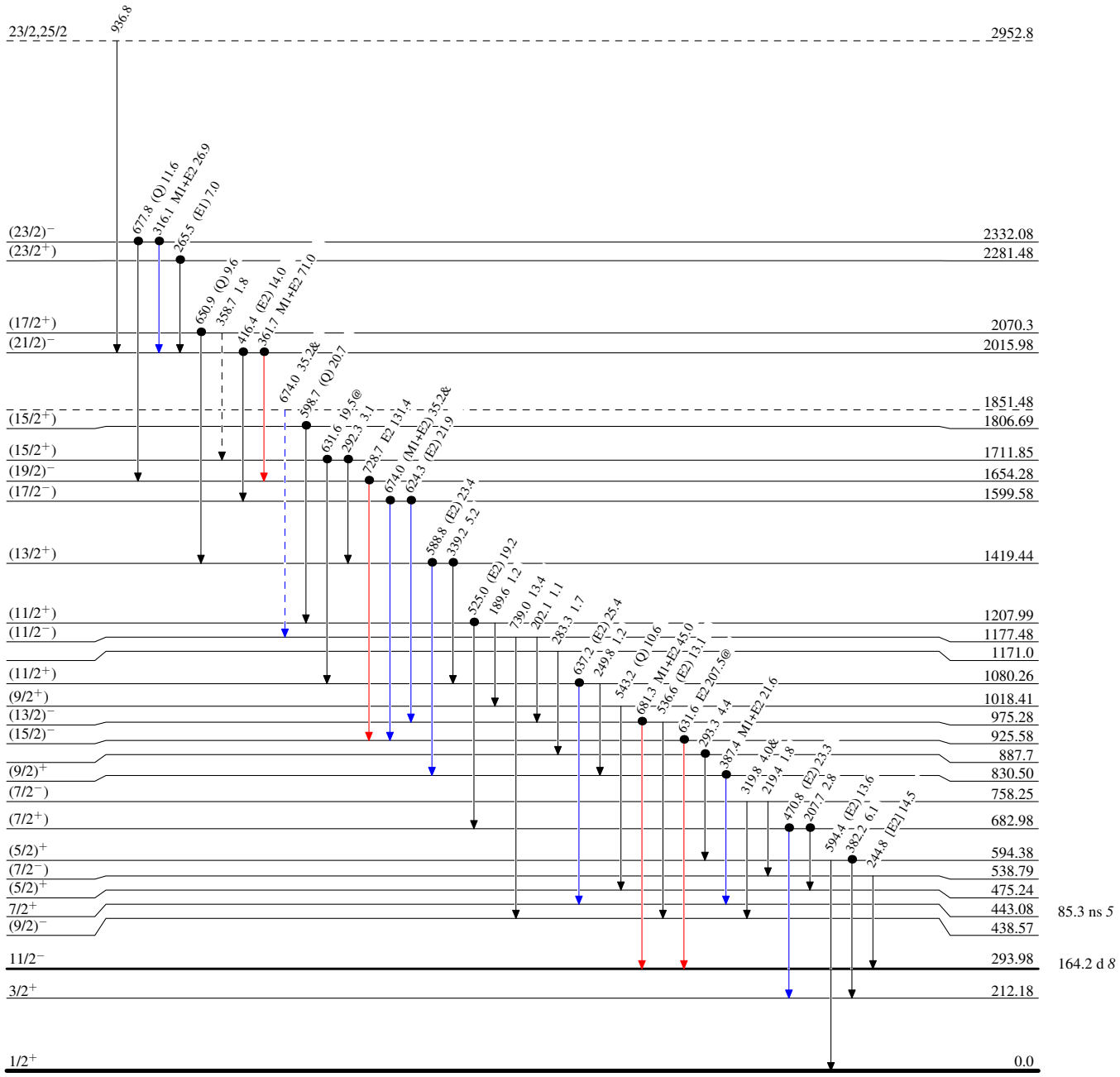
$^{121}_{52}Te_{69}$-6

^{119}Sn(α,2nγ),^{121}Sb(d,2nγ) 1979Ha47,1979Ha18

Level Scheme

Intensities: Relative I_γ
& 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

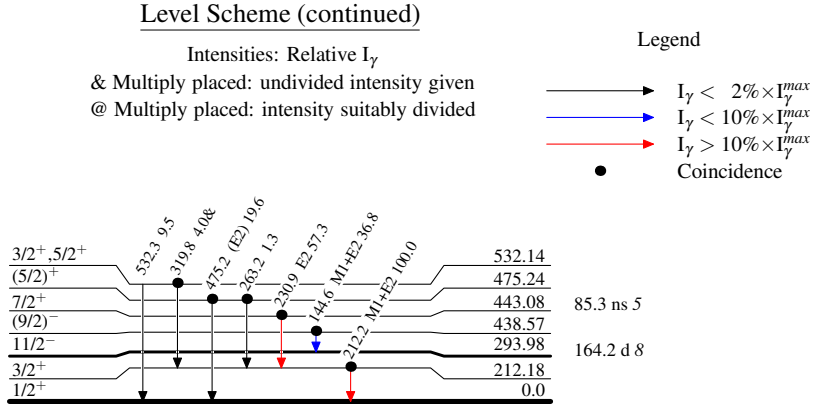


$^{121}_{52}Te_{69}$

^{119}Sn(α,2nγ),^{121}Sb(d,2nγ) 1979Ha47,1979Ha18

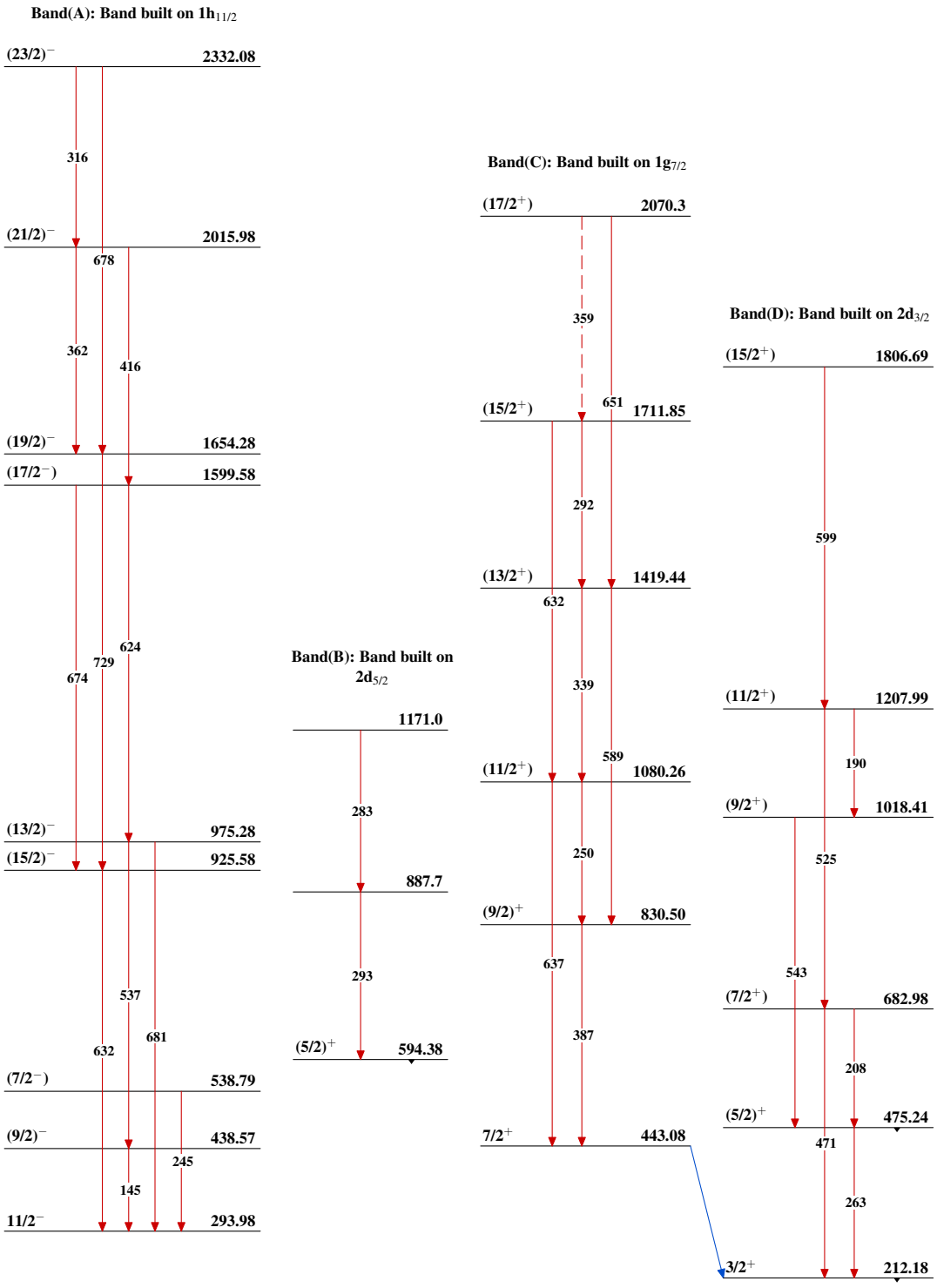
Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



$^{121}_{52}Te_{69}$

^{119}Sn(α,2nγ),^{121}Sb(d,2nγ) 1979Ha47,1979Ha18



$^{121}_{52}Te_{69}$