

$^{121}\text{Sb}(\text{d},^3\text{He}),(\text{t},\alpha)$ [1972LeYL,1978Ba25](#)

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

 $J^\pi(^{121}\text{Sb})=5/2^+$.

$^{121}\text{Sb}(\text{d},^3\text{He})$ [1972LeYL](#): E=45 MeV; 50 keV(FWHM), $\sigma(\theta)$.
The evaluators regard these unpublished results as tentative.

$^{121}\text{Sb}(\text{t},\alpha)$ [1978Ba25](#): E=12 MeV; emulsion plate 30 keV (FWHM), $\sigma(\theta)$, $\theta=5^\circ$ - 175° , deduced spectroscopic factors; enriched target.
Other: [1969ChZL](#).

 ^{120}Sn Levels

E(level) [†]	L	C ² S ^{&}	Comments
0.0 [‡] 10	2	0.61	C ² S: if 2d5/2. Other: 0.47 (d, ³ He).
1150 [‡] 10	2	0.31	C ² S: if 2d5/2. Other: 0.19 (d, ³ He). E(level): other: 1170 in (d, ³ He).
1930?@ 20			
2100 20	2	0.01	
2190 [‡] 10	(2)	(0.05)	C ² S: if 2d3/2. Other: 0.04 (d, ³ He). E(level): 2210 (d, ³ He).
2420 [‡] 10	(2)	(0.05)	C ² S: if 2d3/2. Other: 0.04 (d, ³ He). E(level): 2410 (d, ³ He).
3090 20	1	0.018	
3640 20	4	0.09	
3750 20	4	0.11	
3890 20	1	0.07	
4000 [‡] 10	4	0.74	C ² S: if 1g9/2. Other: 0.53 (d, ³ He).
4120 20	1	0.09	
4180# 10	1	0.70	C ² S: if 2p _{1/2} ; 0.57 if 2p _{3/2} .
4230@ 20	4	0.65	
4330# 10	1	0.69	C ² S: if 2p _{1/2} ; 0.56 if 2p _{3/2} .
4370 20	1	0.35	
4410# 10	1	0.79	C ² S: if 2p _{1/2} ; 0.65 if 2p _{3/2} .
4460@ 20	1	0.44	
4580 20			
4650# 10	1	0.54	C ² S: if 2p _{1/2} ; 0.44 if 2p _{3/2} .
4690@ 20	1	0.30	
4720# 10	(4,3)	(0.81)	C ² S: if 1g9/2; 1.66 if 1f5/2.
4770@ 20	1	0.74	
4870# 10	(4,1)	(0.56)	C ² S: if 1g9/2; 0.26 if 2p _{3/2} .
4920@ 20	1	0.21	
4970# 10			
5030# 10			
5090@ 20	1	0.22	
5170 [‡] 10	1	0.23	C ² S,L: from (d, ³ He).
5230@ 20	4	0.54	

Continued on next page (footnotes at end of table)

$^{121}\text{Sb}(\text{d},^3\text{He}),(\text{t},\alpha)$ **1972LeYL,1978Ba25** (continued)

^{120}Sn Levels (continued)

† From $(\text{d},^3\text{He})$, unless otherwise noted. No uncertainty was given by authors. The evaluators assigned 20 keV for uncertainty.

‡ Observed in (t,α) and $(\text{d},^3\text{He})$.

From (t,α) only.

@ From $(\text{d},^3\text{He})$, but not confirmed by any other reaction.

& C^{25}S from DWBA (t,α) , unless otherwise noted.