

$^{124}\text{Sn}(\text{d,t})$  1990Bo25,1971Di11

Type	Author	History Citation	Literature Cutoff Date
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**1990Bo25:** E=50 MeV deuteron beam was produced at KVI. Reaction products were momentum analyzed with the QMG/2 spectrograph (FWHM=50 keV). Measured  $\sigma(E_t, \theta)$ . Deduced levels, L-transfers, spectroscopic factors from DWBA analysis. Comparisons with available data.

**1971Di11,1972Bo76:** E=17 MeV deuteron beam was produced at ORNL. Enriched target. Reaction products were momentum analyzed with a magnetic spectrograph. Measured  $\sigma(E_t)$ . Deduced levels. Comparisons with available data.

Others: **1977Va15, 1975Be09, 1974Va17, 1967Sc12, 1961Co03.**

 $^{123}\text{Sn}$  Levels

E(level) <sup>†</sup>	J <sup>π</sup> #	L <sup>†</sup>	C <sup>2</sup> S <sup>†</sup>	Comments
0.0	11/2 <sup>-</sup>	5	9.3 15	
24	3/2 <sup>+</sup>	2	2.8 5	E(level): from <b>1971Di11</b> .
150 20	1/2 <sup>+</sup>	0	1.6 2	
620?				E(level): possible contaminant of $^{119}\text{Sn}$ .
930 20	5/2 <sup>+</sup>	2	0.07 3	
1060 20	7/2 <sup>+</sup>	4	1.4 2	E(level): other: 1044 ( <b>1971Di11</b> ).
1109 <sup>‡</sup>				
1160 20	7/2 <sup>+</sup>	4	9.0 31	E(level): other: 1157 ( <b>1971Di11</b> ).
1190 20	5/2 <sup>+</sup>	2	2.9 5	E(level): other: 1196 ( <b>1971Di11</b> ).
1451? <sup>‡</sup>				
1500 20	5/2 <sup>+</sup>	2	2.8 2	E(level): other: 1492 ( <b>1971Di11</b> ).
1780 20	5/2 <sup>+</sup>	2	0.08 4	E(level): other: 1781 ( <b>1971Di11</b> ).
2010 20	3/2 <sup>+</sup>	2	0.22 10	E(level): other: 2026 ( <b>1971Di11</b> ).
2100 20	5/2 <sup>+</sup>	2	0.20 10	E(level): other: 2093 ( <b>1971Di11</b> ).
2167 <sup>‡</sup>				
2271 <sup>‡</sup>				
2368 <sup>‡</sup>				
2420 20	1/2 <sup>+</sup>	0	0.25 10	E(level): other: 2423 ( <b>1971Di11</b> ).
2446 <sup>‡</sup>				
2680 20	5/2 <sup>-</sup>	3	0.45 20	
2950 20	9/2 <sup>+</sup>	4	0.90 20	

<sup>†</sup> From **1990Bo25**. L and C<sup>2</sup>S values are from DWBA analysis of measured differential cross sections.

<sup>‡</sup> from **1971Di11** only.

# Assumed for C<sup>2</sup>S.