

$^{123}\text{Sb(d,p)} \quad 1967\text{Hj04}$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu		NDS 109, 1655 (2008)	1-Apr-2008

$J^\pi(^{123}\text{Sb})=7/2^+$.

[1967Hj04](#): E(d)=15 MeV; enriched metallic target, magnetic spectrograph, $p(\theta)$, FWHM $\approx$ 50 keV.

 $^{124}\text{Sb Levels}$

The level energies have large uncertainties mainly because of uncertain energy calibration. In addition, uncertainty is provided by the subtraction of a large background from a relatively thick Au target backing.

L and S' values were obtained from comparison of experimental angular distributions with those obtained from the $^{124}\text{Sn(d,p)}$ results by [1967Sc12](#). [1967Hj04](#) consider many of the L values uncertain because of poor energy resolution, poor statistics, and interference from strong sulfur contaminant peaks.

E(level) [†]	L	C ² S'	E(level) [†]	L	C ² S'	E(level) [†]	L	C ² S'
15 15	2+(5)	0.35+1.3	1286 40	(2+4)	0.28+0.82	2465 40		
70 15	0+2	0.22+0.15	1379? 40			2555 40	2	0.27
126 15	(5)	2.8	1446? 40	(0+2)	0.01+0.01	2615 40	3	0.31
205 15	0+2	0.46+0.23	1585 40	(2)	0.059	2685? 40	(1)	0.18
285 15	0+2	0.11+0.34	1711 40			2735 40	(1)	0.17
389? 15			1851? 40			2795 40	3	0.52
839? 30			1925 40	(0+2)	0.02+0.02	2875 40	3	0.41
1065? 40			2305 40			2935 40	3	0.35
1176 40			2375 40	(4,3)	0.98,0.16			

[†] E(levels) from [1967Hj04](#) with the addition of 36 keV to the authors' data to compensate for the systematic deviation from other E(level) data (evaluators).