^{123}Sb(d,d′) 1966Ba45,1967Hj04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 174, 1 (2021)	15-Apr-2021

1966Ba45: E=12 MeV deuteron beam was produced from the tandem accelerator at the Niels Bohr Institute. Target was 100 μg/cm^2 98% enriched carbon-backed ^{123}Sb. Reaction products were momentum-analyzed with a magnetic spectrograph. Measured $\sigma(E_d,\theta)$, at θ=90°, 105°, 125°. Deduced levels.

1967Hj04; E=15 MeV beam on 98% enriched target. Reaction products were momentum-analyzed with a magnetic wedge spectrograph (FWHM=30-50 keV). Measured $\sigma(E_d,\theta)$ at θ=45°, 60°. Deduced levels.

^{123}Sb Levels

E(level)†	Relative σ#	E(level)†	Relative σ#	E(level)†	E(level)†
0.0	4500	1258 *5*		2200 *30*	2750? *30*
160 *5*	5	1510 *5*	15	2270 *30*	2860‡ *30*
541 *5*	18	1653 *5*		2380? *30*	3000‡ *30*
1029 *5*	85	1750 *30*		2440? *30*	
1087 *5*	57	1810 *30*		2580 *30*	
1181 *5*	5	2070 *30*		2690? *30*	

† E(levels)≤1653 keV are from 1966Ba45; E(levels)≥1750 keV are from 1967Hj04 and appear to be systematically higher by 20-30 keV.

‡ Probable multiplet.

From 1966Ba45, measured at θ=125°.