^{121}Sb(d,d′), (α,α′) 1966Ba45,1967Hj04,1968St17

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

(d,d′): 1966Ba45, 1967JoZY: E(d)=12 MeV, multigap spectrometer, FWHM=7-10 keV, θ=90°, 105°, 125°.
1967Hj04: E(d)=15 MeV, FWHM=30-50 keV, θ=45°, 60°.
(α,α′): 1968St17: E=42 MeV, energy resolution=80-100 keV at 55°, θ=30°−80° with 0.75° angular resolution.

^{121}Sb Levels

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†
0.0		1382 *5*		2137 *5*		2830?
35 *5*		1423 *5*	(+)	2209 *5*	(−)	2920?
506#a *5*		1446 *5*		2254 *5*		3130
573#a *5*		1727 *5*		2275 *5*		3180
1024@a *5*	(+)	2075 *5*		2370&	(−)	3280
1143@a *5*	(+)	2129 *5*	(−)	2560&	(−)	

† From (d,d′): E(levels) with uncertainty of 5 keV are from 1966Ba45, 1967JoZY; other E(levels) are from 1967Hj04. Values from these authors are approximately 30 keV higher than other works.
‡ Parity from σ(45°)/σ(60°) (1967Hj04).
# Unresolved doublet in (α,α′) at E=545 with L=(2) (1968St17).
@ Multiplet in (α,α′) with L=(2) (1968St17).
& Multiplet in (α,α′) of at least 5 states with L=3 and width≈450 keV. Centers of gravity and strength match those for 3− state in ^{120}Sn and ^{122}Te (1968St17); also multiplet in (d,d′) between 2370-2560 states (1967Hj04).
a 1968St17 proposed that these excited states are the members of multiplets caused by weak coupling of odd proton to the 2+ state of neighboring even-even nuclei. The center of gravity and total strengths of the quadrupole multiplets match those of the neighboring ^{120}Sn and ^{122}Te nuclei.