

$^{152}\text{Sm}(\text{d,t}) \quad 1973\text{Ne16}$

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 110, 1 (2009)	20-Nov-2008

E=12 MeV.

Others: [1976BjZY](#), E(d)=17 MeV; [1968TjZZ](#).Enge spectrograph. FWHM=5 keV. $\sigma(\theta)$ data from 5° to 140° at 16 angles. Relative σ 's accurate to 15%. DWBA analysis of $\sigma(\theta)$ data. **^{151}Sm Levels**

E(level) [‡]	L	Comments
4.8 30	1	Little if any of the strength of this peak is due to excitation of g.s.
67 3	3	Doublet.
92 3	3	L: not consistent with adopted $J^\pi=(9/2)^+$. See 1973Ne16 for a discussion of this discrepancy.
149 3	(6) [†]	
168 3	2+3	Doublet.
176 3	5	
210 3	3	
262 3	5	
286 3		
307 3	2	
316 3	1	
346 3	2	
357 3	0	
≈397	2	
449 3	1	
≈470		
503 3	0	
523 3	2	
632 3		
≈705	(5,6) [†]	
≈742	(4,5) [†]	
898 3		
≈1375	(5) [†]	

[†] From $\sigma(^3\text{He}, ^4\text{He})/\sigma(\text{d,t})$.[‡] Uncertainty estimated by the evaluator.