

$^{151}\text{Sm}({}^3\text{He,d}), {}^{151}\text{Sm}(\alpha,t)$ 1978JoZZ

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 114, 1497 (2013)	31-Aug-2013

$^{151}\text{Sm}({}^3\text{He,d})$: E=24 MeV, measured $\sigma(E,\theta)$.

$^{151}\text{Sm}(\alpha,t)$: E=27 MeV, measured $\sigma(E)$.

$J^\pi(^{151}\text{Sm})=5/2^-$.

 ^{152}Eu Levels

E(level)	S ^{†‡}	E(level)	S ^{†‡}	E(level)	S ^{†‡}	E(level)
46	4	175	7	321	12	531
65 [#]	7	221	26	338	10	709
77 [#]	5	247 [@]		367	5	
111	3	268	53	395	16	
142 [@]		297	4	431	42	

[†] Label= $\sigma(30^\circ)$.

[‡] Measured in $^{151}\text{Sm}({}^3\text{He,d})$ reaction.

[#] The 65 and 77 levels were not resolved in $({}^3\text{He,d})$ reaction.

[@] Seen only in $^{151}\text{Sm}(\alpha,t)$ reaction.