

$^{144}\text{Sm}(^3\text{He,d})$ 1970Ne04,1971Wi04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 110, 507 (2009)	1-Oct-2008

E=40.33 MeV.

Other measurements: E=33 MeV (1982Sc25), 240 MeV (1982Ga12), 67.2 MeV (1984RuZW).

Measured: $\sigma(E,\theta)$, DWBA analysis.

 ^{145}Eu Levels

E(level)	J^π [†]	L	C ² S	Comments
0.0	5/2 ⁺	2	0.33	
329 3	7/2 ⁺	4	0.17	
716 4	11/2 ⁻	5	0.82	
809 4	1/2 ⁺	0	0.98	
1042 5	3/2 ⁺	2	1.02	
1599 8	(7/2) ⁺	4	0.02	J^π : Adopted 11/2 ⁻ .
1757 8	3/2 ⁺	2	0.02	
1843 8	(5/2) ⁺	2	0.10	
2108 10	3/2 ⁺	2	0.04	
2480 12	1/2 ⁺ ,3/2 ⁺	0+2	0.02+0.04	
5.9×10^3 1	(9/2) ⁻	(5)	0.97	E(level), J^π ,C ² S: from 1982Ga12. J^π : L=(5), shell model.

[†] Adopted values except as noted.