
 $^{144}\text{Sm}(^{13}\text{C}, ^{12}\text{C})$ [1975Th09](#)

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

E=72 MeV.

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

 ^{145}Sm Levels

E(level)	J^π [†]	C ² S	Comments
0.0	$7/2^-$	0.60	C ² S: used for normalization of other C ² S.
890	$3/2^-$	0.44	
1610	$1/2^-$	0.82	
1660	$5/2^-$	0.41	
2000			E(level), J^π , C ² S: doublet with E=1972 $3/2^-$, C ² S=0.18 and E=2002 $5/2^-$, C ² S=0.24.
2170			E(level), J^π , C ² S: doublet with E=2134 $3/2^-$, C ² S=0.10 and E=2155 $1/2^-$, C ² S=0.20.

[†] Adopted values.