
 $^{144}\text{Sm}(\text{p,p}),(\text{p,p}'),(\text{pol p,p}') \quad \textcolor{blue}{1977\text{CI02}}$

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

Polarized protons with E=9.0-12.7 MeV ([1977CI02](#)), 8.5-14 MeV ([1984Ce01](#)).

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

Studied: IAR (levels in ^{145}Eu) analogs of lower levels of ^{145}Sm .

Deduced: E, J^π , Γ , S.

 $^{145}\text{Eu Levels}$

E(level)	J^π	Comments
9340	$7/2^-$	Analog to ^{145}Sm ground state.
10210	$3/2^-$	
10780	$9/2^-$	
10940	$1/2^-$	
11000	$5/2^-$	
11140	$9/2^-$	
11220	$7/2^-$	
11320	$3/2^-$	
11340	$5/2^-$	
11490	$3/2^-$	
11500	$1/2^-$	
11640?	$(3/2^-)$	
11690	$5/2^-$	
11780	$5/2^-$	
12040	$7/2^-$	
12160?	$(5/2^-)$	
12350?	$(5/2^-)$	
12430	$1/2^-$	
12490	$3/2^-$	