
 $^{145}\text{Nd}(\text{p},\text{p}') \quad \text{1977He11}$

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

$J^\pi(^{145}\text{Nd})=7/2^-$.

$E=8.7\text{-}10.3\text{ MeV}$, $\text{FWHM}=15\text{-}20\text{ keV}$ ([1977He11](#)), $8\text{-}14\text{ MeV}$ ([1971CaXY](#)).

Measured: $\sigma(E,\theta)$. Deduced IAR in ^{146}Pm .

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

E(level)	$d\sigma/d\Omega^\dagger$	Comments
0.0		
70	0.25	$E(\text{level}), J^\pi, d\sigma/d\Omega$: doublet: $67+72\text{ keV}$ with $J=3/2^-$ and $5/2^-$.
656	0.20	
748	0.04	
780	0.03	
919	0.04	
1005	0.01	
1109	0.01	
1162	0.03	
1249	0.01	
1334	0.01	
1405	0.02	

$^\dagger d\sigma/d\Omega$ (average nonresonant) near $E(\text{p})=9\text{ MeV}$ ([1977He11](#)) in mb/sr.