
 $^{146}\text{Nd}(\text{p,d})$ [1975Hi03](#)

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

E=31 MeV, FWHM=25 keV.

Measured: $\sigma(E,\theta)$, DWBA analysis ([1975Hi03](#),[1971BaZA](#)).

 ^{145}Nd Levels

E(level)	$J^{\pi^{\dagger}}$	L	C ² S	Comments
0.0	$7/2^{-}$	3	1.9	
68	$3/2^{-}$	1	0.16	
657 2	$11/2^{-}$	(5)	0.6	
749 2	$9/2^{-}$	5	0.5	
780 2	$3/2^{-}$	1	0.17	
928 2	$1/2^{-}$	1	0.11	E(level),L: probable doublet; L=3 in (d,t).
1086 2	$3/2^{+}$	2	0.17	
1328 3	$1/2^{+}$	0	0.5	
1529 3	$3/2^{+}$	2	2.3	
1712 3	$1/2^{+}$	0	0.8	
1805 4	$11/2^{-}$	(5)	3.7	
1954 4	$11/2^{-}, 9/2^{-}$	(5)	0.45	C ² S: for J=11/2 ⁻ .
2052 4	$(5/2)^{+}$	2	0.33	
2125 4	$3/2^{+}, 5/2^{+}$	2	0.08	
2202 4	$5/2^{+}$	2	0.13	
2647 5	$5/2^{+}$	(2)	0.18	
2716 6	$(5/2)^{+}$	2	0.7	

[†] Adopted values.