

$^{144}\text{Nd}(\text{p,t})$ 1996Po12

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, D. Symochko(a), M. Fadil(b), and J. K. Tuli		NDS 112, 1949 (2011)	1-Jun-2010

E=35.6 MeV, measured $\sigma(E,\theta)$, s FWHM=20-25 keV; DWBA and coupled-channel analysis (1996Po12).

E=31 MeV FWHM \approx 18 keV (1969Ba45); others: 51.7 MeV (1969Ya07), 22 MeV (1979Ya09,1981Ku05).

Measured: $\sigma(E,\theta)$ (1969Ba45,1969Ya07), analyzing power on 0^+ levels (1979Ya09,1981Ku05), DWBA analysis.

J: from DWBA analysis.

 ^{142}Nd Levels

E(level)	J^π	E(level)	J^π	E(level)	J^π	E(level)	J^π
0.0	0^+	2980 3	(0^+)	3872 5	3^-	4480 6	(5^-)
1576 2	2^+	3010 4	(3^-)	3896 5	2^+	4497 6	(2^+)
2083 2	3^-	3046 4	(2^+)	3918 5	$2^+,5^-$	4557 7	2^+
2099 2	($3^-,4^+$)	3078 4		3983 5	6^+	4615 7	2^+
2217 2	0^+	3134 4	0^+	4004 6	(4^+)	4682 7	(6^+)
2384 2	(2^+)	3242 4	7^-	4062 6	(5^-)	4712 7	($1^-,2^+$)
2438 2	(4^+)	3298 4	($4^+,5^-$)	4096 6	4^+	4735 7	(3^-)
2529 3		3319 4	1^-	4146 6	5^-	4793 7	(3^-)
2583 3	(1^+)	3361 4	(5^-)	4169 6	2^+	4818 7	($2^+,3^-$)
2656 3	0^+	3413 4	5^-	4189 6	1^-	4837 7	
2757 3	(1^-)	3469 4	2^+	4260 6	4^+	4888 7	(4^+)
2846 3	(2^+)	3578 5	3^-	4286 6	4^+		
2873 3	(4^+)	3600 5	5^-	4403 6	(4^+)		
2958 3	0^+	3704 5	5^-	4423 6	(3^-)		