

$^{148}\text{Nd}(\text{d,d}')$  1993Pi06

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 117, 1 (2014)	1-Oct-2013

1993Pi06: E=30.5 MeV, FWHM=12-15 keV; measured  $\sigma(\theta)$ , coupled-channel analysis.

See 1993Pi06 for the level coupling parameters deduced from the coupled-channel analysis.

 $^{148}\text{Nd}$  Levels

Given In table comments are the coupling parameters  $\beta_\lambda$  (1993Pi06).

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>	Comments
0.0	0 <sup>+</sup>	
303 2	2 <sup>+</sup>	0.1970.
752 2	4 <sup>+</sup>	0.0490.
920 2	0 <sup>+</sup>	0.0044.
998 2	3 <sup>-</sup>	0.1260.
1022 2	1 <sup>-</sup>	
1171 2	2 <sup>+</sup>	0.0193.
1244 2	2 <sup>+</sup>	0.0460.
1400 2	(0 <sup>+</sup> ,1 <sup>-</sup> )	
1432 2	(0 <sup>+</sup> ,1 <sup>-</sup> )	
1475 2	(1 <sup>-</sup> )	
1577 2	2 <sup>+</sup>	0.0111.
1602 2	4 <sup>+</sup>	0.0128.
1654 2	(3 <sup>-</sup> )	0.0167.
1685 2	4 <sup>+</sup>	0.0552.
1725 2	3 <sup>-</sup>	0.0597.
1778 2	(3 <sup>-</sup> )	0.0083.
1837 2	(1 <sup>-</sup> )	0.0036.
1887 2	4 <sup>+</sup>	0.0296.
2034 2	3 <sup>-</sup>	0.0323.
2098 2	4 <sup>+</sup>	0.0349.
2145 2	4 <sup>+</sup>	
2197 2	5 <sup>-</sup>	0.0300.
2257 4	(2 <sup>+</sup> )	0.0163.
2286 4	(3 <sup>-</sup> )	0.0101.
2341 4	3 <sup>-</sup>	0.0158.
2388 4	4 <sup>+</sup>	0.0157.
2429 4	2 <sup>+</sup>	0.0171.
2484 4	3 <sup>-</sup>	0.0115.
2544 4	(1 <sup>-</sup> )	0.0026.
2590 4	4 <sup>+</sup>	0.0221.
2642 4	4 <sup>+</sup>	
2682 4	0 <sup>+</sup>	0.0039.
2709 4	4 <sup>+</sup>	0.0179.
2770 4	4 <sup>+</sup>	0.0174.
2807 4	3 <sup>-</sup>	0.0129.
2871 4	(3 <sup>-</sup> )	0.0137.
2913 4	4 <sup>+</sup>	0.0189.
2961 4	4 <sup>+</sup>	0.0137.
3022 4	4 <sup>+</sup>	0.0139.
3068 4	(3 <sup>-</sup> )	
3096 4	(1 <sup>-</sup> )	
3142 4	4 <sup>+</sup>	0.0171.

Continued on next page (footnotes at end of table)

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 $^{148}\text{Nd}(\text{d},\text{d}') \quad \mathbf{1993\text{Pi06}}$  (continued) $^{148}\text{Nd}$  Levels (continued)

<u>E(level)<sup>†</sup></u>	<u>J<sup>π</sup><sup>‡</sup></u>		Comments
3191 4	4 <sup>+</sup>	0.0126.	
3241 4	4 <sup>+</sup>	0.0150.	

<sup>†</sup> From combined (p,p') and (d,d') data ([1993Pi06](#)).

<sup>‡</sup> From coupled-channel analysis of  $\sigma(\theta)$  in (p,p') and (d,d') ([1993Pi06](#)).