

$^{148}\text{Nd}(\text{}^3\text{He},\alpha)$  1980Lo06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	N. Nica and B. Singh		NDS 181, 1 (2022)	9-Mar-2022

1980Lo06: E=24 MeV, enriched target, multi-angle spectrograph.

12 angles,  $7.5^\circ$ – $77.5^\circ$ , resolution FWHM $\approx$ 30 keV, Si detector (elastic yield), nuclear emulsions; DWBA calculations (code DWUCK).

 $^{147}\text{Nd}$  Levels

E(level)	L	S $^\dagger$	E(level)	L	S $^\dagger$	E(level)	L	S $^\dagger$	E(level)	L	S $^\dagger$
0.0	3		932 <i>10</i>	6	0.99	1671 <i>10</i>	(5)	0.18	2430 <i>10</i>	(5)	0.29
50 <i>10</i>	3	1.4	1108 <i>10</i>			1850 <i>10</i>			2484 <i>10</i>	(5)	0.20
128 <i>10</i>	3	0.16	1236 <i>10</i>	(5)	0.13	2035 <i>10</i>			2541 <i>10</i>	(5)	0.24
189 <i>10</i>	5	1.3	1331 <i>10</i>			2159 <i>10</i>			2682 <i>10</i>	2	1.4
508 <i>10</i>	3	0.18	1391 <i>10</i>	2	1.5	2228 <i>10</i>			2713 <i>10</i>		
573 <i>10</i>	3		1457 <i>10</i>	5	1.8	2281 <i>10</i>					
652 <i>10</i>			1506 <i>10</i>	5	0.50	2358 <i>10</i>					
763 <i>10</i>	2	0.24	1597 <i>10</i>			2413 <i>10</i>					

$^\dagger$  Estimated uncertainty in S is  $\approx$ 30%.