

$^{150}\text{Nd}(p,p'),(d,d')$ 1993Pi06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni		NDS 114, 435 (2013)	1-Apr-2013

E(p)=30.5 MeV, E(d)=50.8 MeV. FWHM=12, 15 for (p,p'); 15-22 for (d,d'). Other: 1990Pi14.

 ^{150}Nd Levels

E(level) [†]	J ^{π‡}	E(level) [†]	J ^{π‡}	E(level) [†]	J ^{π‡}	E(level) [†]	J ^{π‡}
130	2 ⁺	1740	0 ⁺	2223	2 ⁺	2836	3 ⁻
381	4 ⁺	1754	(4 ⁺)	2242	2 ⁺	2880	3 ⁻
675	0 ⁺	1782	4 ⁺	2271	3 ⁻	2895	4 ⁺
720	6 ⁺	1802	(5 ⁻)	2328	3 ⁻	2925	4 ⁺
851	1 ⁻	1830	(5 ⁻)	2384	2 ⁺	2961	2 ⁺
934	3 ⁻	1866	3 ⁻	2412	3 ⁻	2993	(1 ⁻ ,4 ⁺)
1062	2 ⁺	1885	4 ⁺	2441	4 ⁺	3039	4 ⁺
1129	(5 ⁻)	1906	4 ⁺	2475	4 ⁺	3069	3 ⁻
1285	(0 ⁺ ,1 ⁻)	1921	4 ⁺	2498	(1 ⁻ ,4 ⁺)	3085	4 ⁺
1318	(1 ⁻)	1988	3 ⁻	2528	4 ⁺	3112	2 ⁺
1354	4 ⁺	2008	2 ⁺	2563	4 ⁺	3157	(2 ⁺)
1408	(2 ⁺)	2033	4 ⁺	2596	5 ⁻	3180	(2 ⁺)
1435	4 ⁺	2055	2 ⁺	2638	4 ⁺	3221	(2 ⁺)
1485	3 ⁻	2077	3 ⁻	2652	4 ⁺	3252	4 ⁺
1518	3 ⁻	2090	3 ⁻	2681	4 ⁺	3301	4 ⁺
1546	3 ⁻	2109	3 ⁻	2707	4 ⁺	3315	3 ⁻
1582	3 ⁻	2129	4 ⁺	2737	4 ⁺	3340	4 ⁺
1604		2174	4 ⁺	2755	4 ⁺		
1648	4 ⁺	2194	2 ⁺	2789	4 ⁺		
1687	3 ⁻	2206	4 ⁺	2818	3 ⁻		

[†] Uncertainty < 2 keV for E < 2.2 MeV and ≤ 4 keV for others.

[‡] From transferred L value. Only natural parity states are observed.