^{145}Nd(p,t)   **1992Tr01**

	History		
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 113, 715 (2012)	31-May-2011

E=25 MeV. θ=5° − 25° 1992Tr01. 1982WrZY is the same group as 1992Tr01.

J^π (^{145}Nd)=7/2$^-$.

Other: E=52.1 MeV (1971Ya10,1972YaZO).

Measured: σ(E,θ).

Relative population of L=0 states is g.s.:2033:3040:3071=100:5.7 *3*:40.0 *8*:14.7 *5*.

^{143}Nd Levels

E(level)[‡]	L[#]	E(level)[‡]	E(level)[‡]	L[#]	E(level)[‡]	L[#]
0.0[†]	0	2073	2791		3263[†]	2
741		2088	2806		3301	4
1230		2168	2834		3309	
1408		2216	3040[†&]	0	3329	
1432		2245	3071[†&]	0	3374	
1556[†]		2280	3099		3396	2
1608		2316	3109		3423	
1740		2475	3132	4	3456	
1775		2540	3153	4	3580[@]	2[@]
1846		2594	3187		3790[@]	2[@]
1987		2749	3226			
2033[†a]	0	2759	3245			

[†] Strong line.

[‡] Measured at 5°, resolution is 7-10 keV. ΔE≤2 keV.

[#] From comparison with $\sigma(\theta)$ for ^{146}Nd(p,t), ^{144}Nd(p,t).

[@] From $\sigma(\theta)$ in 1971Ya10, 1972YaZO.

[&] Identified as n-n vibrational state.

[a] Identified as n-p vibrational state.