

$^{150}\text{Nd}(\alpha,t)$ 1972Bu22

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 110, 1 (2009)	20-Nov-2008

E=25 MeV. Metallic targets $40 \mu\text{g}/\text{cm}^2$ (96% ^{150}Nd). Other from the same laboratory: 1970Bu21.
 $\sigma(\theta)$ recorded at 4 angles.

 ^{151}Pm Levels

<u>E(level)[†]</u>	<u>L[‡]</u>	<u>E(level)[†]</u>	<u>L[‡]</u>	<u>E(level)[†]</u>	<u>L[‡]</u>	<u>E(level)[†]</u>	<u>L[‡]</u>
≈1	(2)	427 2		782 2	(4,5)	1209 3	(4,5)
85.1	(4,5)	506 2	(5,4)	851 2	(0,1)	1265 [#] 3	
≈112		532 2	(1) ^{&}	877 2	(2)	1312 [#] 3	
174 2		553 2		916 2	(2)	1423 3	
199 2	(4,5)	597 2		958 2	(2)	1455 [@] 3	
258 2		640 2	(4,5)	997 3			
325 2		698 2		1038 3			
345 2	(4,5)	719 2		1183 [#] 3			

[†] Relative to the 85.1-keV level (energy from other work).

[‡] From ratios of $\sigma(45^\circ)$ in ($^3\text{He},d$) to $\sigma(60^\circ)$ in (α,t) compared with ratios derived from DWBA. Experimental and theoretical ratios normalized to fit L=2 for 325,(5/2⁺) state.

[#] Weakly excited level.

[@] Probably different from the 1444 level in ($^3\text{He},d$) and 1448 level in (t,α).

[&] Possibly associated with 540 component in unresolved triplet.