

$^{150}\text{Nd}(p,n\gamma)$ 2012Bu03

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

E=7.1 MeV, array of 9 Ge detectors in coincidence with neutron detector.

 ^{150}Pm Levels

<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>E(level)[†]</u>
0.0	172.3 7	244.4 13	319.2 12
56.8 6	196.5 9	247.3? 9	326.0 13
115.8 9	208.0 12	258.5 13	330.0 13
127.9 8	220.0 12	281.7 12	369.3 15
129.7 7	225.9 13	288.8 15	
158.6 8	229.5 10	293.9 13	

[†] From least-squares fit to E_γ assuming 1 keV uncertainty.

 $\gamma(^{150}\text{Pm})$

<u>E_γ</u>	<u>E_i(level)</u>	<u>E_f</u>	<u>E_γ</u>	<u>E_i(level)</u>	<u>E_f</u>	<u>E_γ</u>	<u>E_i(level)</u>	<u>E_f</u>	<u>E_γ</u>	<u>E_i(level)</u>	<u>E_f</u>
56.6 [†]	172.3	115.8	90.3	220.0	129.7	117.5	247.3?	129.7	161.3	369.3	208.0
56.8	56.8	0.0	98.0	225.9	127.9	127.9	127.9	0.0	166.0	293.9	127.9
59.0	115.8	56.8	99.9	258.5	158.6	129.7	129.7	0.0	167.4	326.0	158.6
68.6	196.5	127.9	101.8	158.6	56.8	139.7	196.5	56.8	171.4	330.0	158.6
72.9	129.7	56.8	109.4	281.7	172.3	146.9	319.2	172.3	172.4	172.3	0.0
75 [†]	247.3?	172.3	115.5	172.3	56.8	151.2	208.0	56.8	229.5	229.5	0.0
80.8	288.8	208.0	116.5	244.4	127.9	158.6	158.6	0.0			

[†] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

-----▶ γ Decay (Uncertain)