

$^{144}\text{Nd}(^3\text{He,d})$ **1980St10**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 110, 507 (2009)	1-Oct-2008

E=24 MeV (**1980St10,1973MaYO**), 35.2 MeV (**1976Sh05**).

Measured: $\sigma(E,\theta)$, DWBA analysis.

 ^{145}Pm Levels

E(level)	J^π [†]	L	S' [‡]	E(level)	J^π [†]	L	S' [‡]	E(level)	J^π [†]	L	S' [‡]
0.0	$5/2^+$	2	2.33	1386	$7/2^-$	3	0.19	2112	$1/2^+$	0	0.12
60	$7/2^+$	4	1.59	1489	$(3/2^+)$	(2)	(0.16)	2168			
498	$3/2^+$	2	0.02	1507	$(3/2^+)$	2	0.23	2190	$(3/2^+)$	(2)	(0.18)
728	$1/2^+$	0	0.52	1563				2210	$(3/2^+)$	(2)	(0.12)
773	$(3/2^+)$	2	0.15	1716	$1/2^+$	0	0.030	2282 [@]	[@]	[@]	[@]
796	$11/2^-$	5	8.77	1753	$1/2^+$	0	0.036	2294 [@]	[@]	[@]	[@]
960	$(3/2^+)$	2	1.41	1753	$(11/2^-)$	5	1.3	2329			
1059	$1/2^+$	0	0.56	1809	$(1/2^+)$	(0)	(0.023)	2401			
1214 [#]				1849				2431			
1226	$(3/2^+)$	2	0.25	1978	$1/2^+$	0	0.18	2474			
1260				2008	$(3/2^+)$	2	0.53	2562			

[†] Adopted values. Almost all expected strength for L=2 d5/2 levels was observed in transition to $5/2^+$ g.s.; therefore, L=2 excited levels populated in this reaction are probably $3/2^+$ (d3/2).

[‡] For $d\sigma/d\Omega(40^\circ)$ see **1980St10**.

[#] Observed in **1973MaYO**.

[@] For doublet 2282+2294 L=2, S'=0.26.