^{144}Sm(d,t) 1976Be10

History

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

E=26.21 MeV.
Measured: σ(E,θ), DWBA analysis; energy resolution 14 keV.

^{143}Sm Levels

E(level)[†]	J$^{\pi}$[@]	L	C^{2}S	Comments
0.0	3/2$^+$	2	4	
110.6	1/2$^+$	0	1.7	
755	11/2$^-$	5	8.9	
1112	5/2$^+$	2	3.4	
1311[#]	7/2$^-$	(3)	0.06	
1368	7/2$^+$	4	1.9	
1539	5/2$^+$	2	0.18	
1569?[#]	3/2$^+$	2	0.03	
1670[#]				
1715[‡]	3/2$^+$	2	0.39	
1882[#]				
1943				
1958[‡]	5/2$^+$,7/2$^+$	2+(4)		C^{2}S: 0.025+<0.08.
1999	1/2$^+$	0	0.27	
2073	5/2$^+$	2	0.48	
2133[#]	5/2$^+$	(2)	0.02	
2169	7/2$^+$	4	1.4	
2207[#]	5/2$^+$	2	0.04	
2232[#]	5/2$^+$	2	0.02	
2270	7/2$^+$	4	0.52	
2294[#]	7/2$^-$	(3)	0.09	
2323				
2417	5/2$^+$	(2)	0.02	
2460	11/2$^-$	5	1.6	
2505				
2590	11/2$^-$	5	1.2	
2652[#]	5/2$^+$	(2)	0.06	
2686	7/2$^+$	(4)	0.77	
2787				
2843				
2876[#]				
2905	7/2$^+$	4	0.37	
2983[#]	5/2$^+$	(2)	0.06	
3030	7/2$^+$ & 3/2$^+$	4+2	1.0+0.09	
3066	1/2$^+$	0	0.05	
3154	5/2$^+$	2	0.25	
3180	5/2$^+$	2	0.13	
3210	5/2$^+$	2	0.12	

[†] ΔE≤10 keV.
[‡] Doublet.
[#] It could belong to some other Sm isotope.
[@] Spins used for C^{2}S calculations.