
 $^{148}\text{Sm}(\text{p,d})$ **1974GrYX**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica and B. Singh	NDS 181, 1 (2022)	9-Mar-2022

E=20 MeV.

L-values are inferred from angular distributions at 22 angles from 5° to 170°. Values in square brackets were assumed by the authors in order to establish empirical $\sigma(\theta)$ shapes for the determination of L values for the other levels. DWBA fits are in general poor. L(1221)=0 is established by the forward peaking and the DWBA fit is good.

 ^{147}Sm Levels

Energy resolution $\Delta E \approx 30$ keV.

E(level)	L	$\sigma(\text{mb})$	E(level)	L	$\sigma(\text{mb})$	E(level)	L	$\sigma(\text{mb})$
0		2.43	1258			2097	(1)	0.49
196	1	0.48	1333			2207		
720	(0)	0.088	1464	2	0.14	2514		
802	[1]	0.57	1553	(2)	1.53	2566		
884	(0)	0.13	1668	0	1.55	2702		
923	(1)	0.099	1850	(0)	0.13	2800		
1041	1	0.30	1911	(0)	0.11	2845		
1064	[2]	0.17	1976	(2)				
1221	0	0.58	2064	(2)	0.092			