

$^{148}\text{Sm}(\text{d}, ^6\text{Li})$ 1977Mi02

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	A. A. Sonzogni	NDS 93, 599 (2001)	1-Dec-2000

E=35 MeV.

Measured $^6\text{Li}(\theta)$ $\theta=8^\circ-68^\circ$, DWBA.

Studied α -particle clustering. Deduced α -spectroscopic factors and reduced widths with DWBA. Comparison with (p,t) reaction.

 ^{144}Nd Levels

<u>E(level)</u>	<u>J^π[†]</u>	<u>S[‡]</u>
0	0 ⁺	0.078
696	2 ⁺	0.010
1314	4 ⁺	0.013

[†] From Adopted Levels.

[‡] α -particle spectroscopic factor normalized such that reduced width for g.s. in (d, ^6Li) reaction is same as for α decay of ^{148}Sm with $T_{1/2}=8.0\times 10^{15}$ y.