

<sup>147</sup>Sm(d,p) **1975Oe01,1964Ke03**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 117, 1 (2014)	1-Oct-2013

J(<sup>147</sup>Sm)=7/2<sup>-</sup>.

E=12.5 MeV, FWHM=9-12 keV (**1975Oe01**), 12 MeV FWHM=0.1% (**1964Ke03**).

Measured: σ(E,θ), DWBA analysis.

<sup>148</sup>Sm Levels

E(level) <sup>†</sup>	L <sup>#</sup>	(2J+1)C <sup>2</sup> S <sup>#</sup>	E(level) <sup>†</sup>	L <sup>#</sup>	(2J+1)C <sup>2</sup> S <sup>#</sup>	E(level) <sup>†</sup>
0.0	3	2.11	2868 3	1	0.55	3890 10
551 3	1+3	1.14+1.12	2902 @ 10			3924 10
1163 3	2	0.39	2930 ‡ 3	1+3	0.66+1.28	3953 10
1181 3	1+3	0.34+1.06	2950 @ 10			3990 10
1427 &			2989 3			4028 10
1464 @ 8			3001 3			4043 10
1594 @ 8			3022 3			4085 10
1666 3	3	1.46	3046 3	1+3	0.90+0.93	4107 10
1736 3	1+3	0.49+3.15	3068 @ 10			4127 10
1906 ‡ 3	1+3	0.56+9.10	3112 3	1+3	0.50+1.16	4166 10
1976 3	1+3	0.56+0.64	3154 3	1+3	0.31+1.50	4192 10
2041 @ 8			3178 3	1+3	0.63+0.84	4214 10
2100 3	1+3	0.10+3.14	3218 @ 10			4228 10
2116 3			3243 3	1+3	0.58+0.73	4255 10
2151 3	1+3	0.54+0.87	3273 @ 10			4290 10
2199 3	3	1.85	3307 3			4334 10
2218 3	1+3	0.51+0.78	3349 3	1	1.35	4357 10
2233 3	1+3	0.26+0.41	3389 @ 10			4383 10
2280 @ 8			3409 3			4402 10
2318 3			3450 @ 10			4444 10
2333 3	1	0.69	3479 3			4466 10
2379 3	3	3.39	3526 10			4510 10
2395 3	1	1.34	3556 10			4535 10
2496 3	1	1.41	3586 10			4573 10
2532 3	1	2.81	3621 10			4592 10
2575 @ 10			3658 10			4630 10
2649 3	1	2.06	3668 10			4649 10
2682 @ 10			3712 10			4675 10
2705 3	1+3	0.41+0.67	3734 10			4735 10
2729 3	1+3	1.03+1.70	3761 10			4784 10
2760 ‡ 3	1+3	0.50+0.85	3780 10			4824 10
2809 ‡ 3			3794 10			4876 10
2824 ‡ 3			3847 10			

<sup>†</sup> Levels below 3500 keV are from **1975Oe01**, unless indicated otherwise; all levels above 3500 keV are from **1964Ke03**.

<sup>‡</sup> Unresolved doublet, levels less than 10 keV apart.

<sup>#</sup> From DWBA analysis (**1975Oe01**).

@ Observed only by **1964Ke03**.

& Level masked by impurities.