

$^{150}\text{Sm}(\gamma, \gamma')$ 1993Zi05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni		NDS 114, 435 (2013)	1-Apr-2013

E=2-4 MeV. Measured γ , $\gamma(\theta)$.

 ^{150}Sm Levels

$\Gamma_{\gamma 1}$ refers to transition to first 2^+ state.

E(level)	J^π #	$T_{1/2}^\dagger$	S^\ddagger	Comments
2551.3	1	4.2 13	1.7 6	B(E1) \uparrow = 0.7×10^{-5} 2
2668.8	1	10.3 14	1.5 3	B(E1) \uparrow = 1.6×10^{-5} 2
2701.3		4.2 5	0.00 8	
2725.4		2.0 5	0.00 9	
2761.8		3.9 5	0.00 9	
2880.9	1	2.9 13	2.0 10	B(E1) \uparrow = 0.4×10^{-5} 2
2885.7	1	12.6 24	0.37 9	
2894.6		3.3 5	0.00 13	
2976.3	1	7.3 17	0.60 18	
3050.8	1	11.1 16	1.09 19	B(E1) \uparrow = 1.1×10^{-5} 2
3081.8	1	39 4	0.28 3	
3113.2	1	20 3	0.55 8	
3214.8	1	22.2 21	1.26 12	B(E1) \uparrow = 1.9×10^{-5} 2
3238.8		12.1 9	0.00 6	
3244.7		8.8 8	0.00 8	
3258.3	1	8.6 25	2.3 7	B(E1) \uparrow = 0.7×10^{-5} 2
3322.9	1	11.8 20	0.82 17	
3416.9	1	8.4 22	1.5 6	B(E1) \uparrow = 0.6×10^{-5} 2
3492.2	1	49 4	0.97 7	B(E1) \uparrow = 3.3×10^{-5} 3
3592.1	1	19 4	0.34 9	
3600.9	1	7 3	2.1 10	B(E1) \uparrow = 0.4×10^{-5} 2
3611.7		8.0 11	0.00 14	
3702.0	1	26 4	2.0 4	B(E1) \uparrow = 1.4×10^{-5} 2
3768.7		18.3 19	0.00 7	
3790.2	1	31 5	1.11 17	B(E1) \uparrow = 1.6×10^{-5} 2
4035.4	1	14 7	0.39 23	

† Label= $\Gamma_{\gamma 0}$ (MeV).

‡ Label= $\Gamma_{\gamma 1}/\Gamma_{\gamma 0}$.

From $\gamma(\theta)$.