

$^{147}\text{Sm}(\alpha, \alpha)$ 1975Si03

Type	Author	History	Citation	Literature Cutoff Date
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$J^\pi(^{147}\text{Sm})=7/2^-$.

1975Si03: $^{147}\text{Sm}(\alpha, \alpha)$, E=24 MeV; measured $E\alpha$, $I\alpha$ at $\theta=45^\circ$. ^{146}Sm ; deduced levels. Enge split pole spectrograph, FWHM \approx 30 keV.

 ^{146}Sm Levels

E(level) [†]	J^π [‡]	E(level) [†]	J^π [‡]	E(level) [†]	E(level) [†]
0.0	0 ⁺	2265		3375	4101
742	2 ⁺	2529		3425	4168
1376	#	2593		3493	4267
1649	2 ⁺	2643		3585	4663
1820	6 ⁺	2740		3767	
2077	5 ⁻	2792	5 ⁻	3810	
2162	2 ⁺	3180		4035	

[†] From 1975Si03, $\Delta E=5-15$ keV.

[‡] Assigned on the basis of ε capture and $(\alpha, 2n)$ data of 1975Si03.

3⁻ for 1380 keV, 4⁺ for 1381 keV.