

$^{30}\text{Si}(\text{t}, ^3\text{He})$ [1969Aj03](#),[1987Pe06](#),[1989C107](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia, A. Chakraborty		NDS 197,1 (2024)	31-May-2024

[1969Aj03](#): $^{30}\text{Si}(\text{t}, ^3\text{He})$ E=20 MeV; measured $\sigma(\text{E}(^3\text{He}))$. Deduced excited levels.

[1987Pe06](#),[1989C107](#): $^{30}\text{Si}(\text{t}, ^3\text{He})$ E=36 MeV; $\Delta\text{E-E}$ telescope; measured $\sigma(\text{E}(^3\text{He}))$, $\theta(^3\text{He})$, $\sigma(\theta)$. Deduced excited levels, spin, parity. DWBA calculations. FWHM=70 keV.

 ^{30}Al Levels

E(level) [†]	J ^π	Comments
0	3 ⁺ @	
245 17	1 ⁺ ,2 ⁺ @	E(level): 250 30 (1969Aj03).
694 15	1 ⁺ ,2 ⁺ @	
1000 [‡] 30		
1120 23	2 ⁺ , (3 ⁺)@	E(level): 1135 20 (1969Aj03).
1253 11	(4 ⁺)@	E(level): 1262 15 (1969Aj03).
1822 17		
2303 15	3,4 [#]	
2454 20		
2744 15		
2892 15	4,5 [#]	
3461 30		
3705 17		
3908 17	5 ⁺ [#]	
4009 10	(2) [#]	
4201 19		
4463 15		
4694 15		
4814 15	3,4	
5415 15		
5553 15		
5901 19		

[†] From [1987Pe06](#), except otherwise noted.

[‡] From [1969Aj03](#).

[#] From [1989C107](#), based on measured $d\sigma/d\Omega$ and DWBA calculations.

@ From [1987Pe06](#), based on measured $d\sigma/d\Omega$ and DWBA calculations.