

²⁸Si(³He,t) 1979Ra07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 114, 1189 (2013)	1-Apr-2013

J^π(²⁸Si)=0⁺.

Others: 1997Fu02, 1984Ta11, 1982Ta05, 1977Pe02, and 1966Ma18.

1979Ra07: ²⁸Si(³He,t) E=35 MeV. Measured σ(E,θ), magnetic spectrometer, FWHM 15 keV.

²⁸P Levels

E(level) [†]	J ^{π‡}	T _{1/2}	L [#]	Comments
0	3 ⁺	270.3 ms 5	4	T _{1/2} : from Adopted Levels.
106 5	2 ⁺		2	
877 5				
1133 5	3 ⁺		4	
1313 5	1 ⁺		0+2	
1516 5	2 ⁺		2	
1569 5	1 ⁺		0+2	
2104 5	2 ⁺		2	
2143 5	1 ⁺		0+2	
2216 5	(3,4) ⁺		2+4	
2406 5	(0,1,2) ⁺		2	
2483 5				
2628 5	(3,4) ⁺		2+4	
2857 5				
2896 5	(3,4) ⁺		4	
2973 5	1 ⁺		0+2	
3164 5	(3,4) ⁺		4	
3200 5				
3250 5				
3512 5	1 ⁺		0+2	
3558 5				
3728 5				
3806 5				
3911 5	2 ⁺		2	
4150 10				
4180 10				
4290 10				
4500				E(level): Multiplet.
4630 10	1 ⁺			E(level),J ^π : 4610 keV 50 in 1997Fu02. J ^π =1 ⁺ is assigned in 1997Fu02 from a comparison of (³ He,t) spectrum at 0° with B(M1) strength in ²⁸ Si(e,e′) experiment.
4940 10	6 ⁻			J ^π : from 1985Fa06.
4970 10				
5190 10				

[†] From 1979Ra07.

[‡] Authors' value in 1979Ra07, except otherwise noted.

[#] From angular distribution measurement and DWBA analysis in 1979Ra07.