

$^{16}\text{O}(^6\text{Li},t)$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Tilley, Weller, Cheves, Chasteler		NP A595,1 (1995)	31-Oct-1994

References for this reaction are: [1972Ga08](#), [1972Bi14](#), [1973Bi02](#), [1979Ma26](#).
 See also $^{16}\text{O}(^6\text{Li},^3\text{He})^{19}\text{F}$ reaction for analog states.

 ^{19}Ne Levels

E(level) [†]	J ^π @	Comments
0 [‡]	1/2 ⁺	
240 [‡]	5/2 ⁺	
280 [#]	1/2 ⁻	
1510 [#]	5/2 ⁻ &	
1540 [‡]	3/2 ⁺ &	
1620 [#]	3/2 ⁻ &	
2790 [‡]	9/2 ⁺ &	
4030	3/2 ⁺	
4140 [#]	9/2 ⁻	
4200 [#]	7/2 ⁻	
4380	7/2 ⁺	
4550	5/2 ⁽⁺⁾ &	
4593 6	3/2 ⁻ , (1/2 ⁻)	
4640 [‡]	13/2 ⁺	
4710	5/2 ⁻	
5090	5/2 ⁽⁻⁾	J ^π =(5/2 ⁻ , 7/2 ⁻); at 4.78 MeV is also reported.
5420 [‡]	7/2 ⁺	

[†] Energy values shown are nominal.

[‡] Members of the K^π=1/2⁺ band.

[#] Members of the K^π=1/2⁻ band.

@ Assignments based on similarities in angular distributions, and on known spin of one of the analog states in ^{19}F .

& J^π assignments based on similarities in $\sigma(\text{max})$ in analog reaction, and on known spin of analog state.