

$^{16}\text{O}(^6\text{Li},^3\text{He})$

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 $^{16}\text{O}(^6\text{Li},t)^{19}\text{Ne}$ reaction for analog states.

 ^{19}F Levels

E(level) [†]	J ^π @	Comments
0 [‡]	1/2 ⁺	
110 [#]	1/2 ⁻	
200 [‡]	5/2 ⁺	
1350 [#]	5/2 ⁻	
1460 [#]	3/2 ⁻	
1560 [‡]	3/2 ⁺	
2780 [‡]	9/2 ⁺	
3910	3/2 ⁺	
4000 [#]	7/2 ⁻	
4030 [#]	9/2 ⁻	
4380	7/2 ⁺	
4550	5/2 ⁽⁺⁾	
4560	3/2 ⁻ , (1/2 ⁻)	
4650 [‡]	13/2 ⁺	
4680	5/2 ⁻	
5110	5/2 ⁽⁻⁾	
5340	5/2 ⁺	
5430	7/2 ⁻	
6500 [‡]	11/2 ⁺	Not strongly populated at E(^6Li)=24 MeV.

[†] Energy values shown are nominal.

[‡] Members of the $K^\pi=1/2^+$ band.

[#] Members of the $K^\pi=1/2^-$ band.

[@] Assgments based on similarities in angular distributions, and on known spin of one of the analog states in ^{19}Ne .