

Table 19.16 from (1972AJ02): Energy levels of ^{19}F from $^{18}\text{O}(^3\text{He}, d)^{19}\text{F}$

E_x (MeV \pm keV)		l^a	$C^2S(2J_f + 1)^{a,b}$	J^π^a
(1970GR04)	(1970SC25)			
0	0	0	0.42	$\frac{1}{2}^+$
0.110 ± 10	0.112 ± 3	1	0.224	$\frac{1}{2}^-$
0.198 ± 10	0.199 ± 3	2	2.45	$\frac{5}{2}^+$
	1.347 ± 5			
1.46 ± 15	1.460 ± 5	1	0.098	$\frac{3}{2}^-$
1.56 ± 10	1.556 ± 5	2	1.01	$\frac{3}{2}^+$
2.790 ± 15	2.784 ± 5	4^b	$< 0.027^b$	$\frac{9}{2}^+$
	3.912 ± 5			
4.00 ± 20^c	4.002 ± 5	(3)	(0.019)	$(\frac{7}{2}^-)$
	4.036 ± 10			
4.39 ± 20	4.385 ± 5	$(4)^b$	$(0.048)^b$	$(\frac{7}{2}^+)$
4.56 ± 20	4.555 ± 5	2	0.31	$\frac{3}{2}^+^d$
	4.675 ± 10^c			
5.10 ± 20	5.113 ± 5	$(2, 3)^{a,b}$		$\frac{5}{2}^-$
	5.34 ± 5	(2, 3)	0.0065	$\frac{5}{2}^+$
5.43 ± 30^c	5.428 ± 8	(2, 3)	(0.042)	$(\frac{3}{2}^+)$
	5.495 ± 5^c			
5.55 ± 30^c	5.54 ± 5	3	0.14	$\frac{7}{2}^-$
	5.943 ± 5	0	0.014	$\frac{1}{2}^+$
6.08 ± 30^c	6.095 ± 5	1	0.12	$\frac{1}{2}^-$
	6.167 ± 5			
6.25 ± 30^c	6.255 ± 8	(0)	0.19	$(\frac{1}{2}^+)$
6.47 ± 30^c	6.503 ± 5^c	2^b	0.133^b	$\frac{3}{2}^+$
	6.595 ± 10			
6.76 ± 30	6.792 ± 5	1^b	0.29^b	$\frac{3}{2}^-$
6.90 ± 30^c	6.93 ± 5	(2, 3)		$(\frac{5}{2}^+, \frac{7}{2}^-)$
7.10 ± 30^c	7.112 ± 8^c	2	0.087	$\frac{5}{2}^+$
	7.26 ± 5			
	7.364 ± 5	0	0.091	$\frac{1}{2}^+$
7.56 ± 30	7.540 ± 3	2	0.665	$\frac{5}{2}^+; T = \frac{3}{2}$

Table 19.16 from (1972AJ02): Energy levels of ^{19}F from $^{18}\text{O}(^3\text{He}, \text{d})^{19}\text{F}$ (continued)

E_x (MeV \pm keV)		l^a	$C^2S(2J_f + 1)^{a,b}$	J^π^a
(1970GR04)	(1970SC25)			
7.74 \pm 30	7.665 \pm 5	(2)	0.035	$(\frac{3}{2}^+)$
	7.702 \pm 5	(0, 1)	(0.052)	$(\frac{3}{2}^-)$
	8.015 \pm 5	2	0.26	$\frac{5}{2}^+$
	8.086 \pm 5	(2, 3)	0.097	$(\frac{5}{2}^+)$
	8.135 \pm 5	(0, 1)	0.156	$(\frac{1}{2}^+)$
	8.198 \pm 5	(2, 3)	0.035	$(\frac{5}{2}^+)$
	8.255 \pm 5	(2)	0.035	$(\frac{5}{2}^+)$
	8.31 \pm 5			
	8.592 \pm 10	(2, 3)		
	8.795 \pm 15	0	(0.13)	$\frac{1}{2}^+; T = \frac{3}{2}$
	9.113 \pm 10			
	9.18 \pm 15			
	9.596 \pm 10			
	9.682 \pm 15			
	10.275 \pm 15			
10.33 \pm 15				
10.525 \pm 15				

^a (1970SC25): $E(^3\text{He}) = 16$ MeV.

^b See also (1970GR04).

^c Unresolved.

^d J probably $\frac{5}{2}$. This appears to be a different state from the one involved in the $^{20}\text{Ne}(\text{d}, ^3\text{He})^{19}\text{F}$ reaction, with $J^\pi = \frac{3}{2}^-$; see (1970KA31).