

Table 19.18 from (1978AJ03):
Energy levels of ^{19}F from $^{18}\text{O}(\text{d}, \text{n})^{19}\text{F}$ and $^{18}\text{O}(^3\text{He}, \text{d})^{19}\text{F}$

E_x (MeV \pm keV)	l_p ^a	l ^b	$C^2 S(2J_f + 1)$		J^π ^b
			d	b	
1.5544 \pm 0.6	0	0	0.29	0.42	$\frac{1}{2}^+$
	0.112 \pm 3	1		0.224	$\frac{1}{2}^-$
	0.199 \pm 3	2	1.68	2.45	$\frac{5}{2}^+$
	1.347 \pm 5				
	1.460 \pm 5	1		0.098	$\frac{3}{2}^-$
	1.556 \pm 5	2		1.01	$\frac{3}{2}^+$
	2.784 \pm 5	4 ^f		0.027 ^f	$\frac{9}{2}^+$
	3.9048 \pm 0.8	3.912 \pm 5			
	3.999 \pm 1	4.002 \pm 5	(3)	(0.019)	$(\frac{7}{2}^-)$
	4.036 \pm 10				
4.3761 \pm 0.8	4.385 \pm 5	(4) ^f		(0.048) ^f	$(\frac{7}{2}^+)$
	4.551 \pm 1	2		0.31	$\frac{3}{2}^+g$
	4.5557 \pm 0.5				
	4.684 \pm 1	4.675 \pm 10 ^e			
5.106 \pm 3	5.113 \pm 5	3	(2, 3) ^f		$\frac{5}{2}^-, \frac{7}{2}^-h$
	5.34 \pm 5		(2, 3)	0.0065	$\frac{5}{2}^+$
	5.428 \pm 8		(2, 3)	(0.042)	$(\frac{3}{2}^+)$
	5.495 \pm 5 ^e				
	5.54 \pm 5	3		0.14	$\frac{7}{2}^-$
5.625 \pm 4	5.943 \pm 5	0		0.014	$\frac{1}{2}^+$
	6.095 \pm 5	1		0.12	$\frac{1}{2}^-$
	6.167 \pm 5				
	6.255 \pm 8	0	(0)	0.24	$\frac{1}{2}^+d$
	6.503 \pm 5 ^e		2 ^f	0.133 ^f	$\frac{3}{2}^+$
	6.595 \pm 10				
	6.792 \pm 5	1	1 ^f	0.27	$\frac{3}{2}^-$
	6.93 \pm 5		(2, 3)		$(\frac{5}{2}^+, \frac{7}{2}^-)$
	7.112 \pm 8 ^e	2		0.087	$\frac{5}{2}^+$

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 Energy levels of ^{19}F from $^{18}\text{O}(\text{d}, \text{n})^{19}\text{F}$ and $^{18}\text{O}(^{3}\text{He}, \text{d})^{19}\text{F}$ (continued)

E_x (MeV \pm keV) (1975LE16) ^a	l_p ^a (1970SC25) ^b	l ^b	$C^2S(2J_f + 1)$		J^π ^b
			d	b	
7.26 \pm 5					
7.364 \pm 5		0		0.091	$\frac{1}{2}^+$
7.540 \pm 3	1	2		0.665	$\frac{5}{2}^+; T = \frac{3}{2}$
7.665 \pm 5	0	(2)	0.14	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	(0, 1)		0.156	$\frac{1}{2}^+ \text{ d}$
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 $^{18}\text{O}(\text{d}, \text{n}\gamma)$ (1975LE16). For τ_m , see Table 19.10.

^b $^{18}\text{O}(^{3}\text{He}, \text{d})$: $E(^3\text{He}) = 16$ MeV (1970SC25).

^c $^{18}\text{O}(\text{d}, \text{n})$: $E_{\text{d}} = 3$ MeV (1968GU07) and 4 MeV (1972TA26).

^d Using DWUCK (1972TA26).

^e Unresolved.

^f See also (1970GR04).

^g 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).

^h (1968GU07).