

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

E_x (MeV \pm keV)		l_p ^a	l ^b	$C^2S(2J_f + 1)$		$J\pi$ ^b
(1975LE16) ^a	(1970SC25) ^b			d	b	
	0	0	0	0.29	0.42	$\frac{1}{2}^+$
	0.112 \pm 3		1		0.224	$\frac{1}{2}^-$
	0.199 \pm 3	2	2	1.68	2.45	$\frac{5}{2}^+$
	1.347 \pm 5					
	1.460 \pm 5		1		0.098	$\frac{3}{2}^-$
1.5544 \pm 0.6	1.556 \pm 5		2		1.01	$\frac{3}{2}^+$
	2.784 \pm 5	4	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	4.555 \pm 5		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	0.19	$\frac{1}{2}^+$ ^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	0.29 ^f	$\frac{3}{2}^-$
	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 $^{18}\text{O}(\text{}^3\text{He}, \text{d})^{19}\text{F}$ (continued)

E_x (MeV \pm keV)		l_p ^a	l ^b	$C^2S(2J_f + 1)$		J^π ^b
(1975LE16) ^a	(1970SC25) ^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	$\frac{1}{2}^+$ ^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 $^{18}\text{O}(\text{}^3\text{He}, \text{d})$: $E(^3\text{He}) = 16$ MeV (1970SC25).

^c $^{18}\text{O}(\text{d}, \text{n})$: $E_d = 3$ 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 $^{20}\text{Ne}(\text{d}, \text{}^3\text{He})^{19}\text{F}$ reaction, with $J^\pi = \frac{3}{2}^-$; see (1970KA31).

^h (1968GU07).