

Table 18.18 from (1972AJ02): States of ^{18}F from $^{16}\text{O}(^3\text{He}, p)^{18}\text{F}$

E_x (MeV \pm keV)							l^f	$J^\pi; T^g$
(1959HI67) ^a	(1959YO25) ^a	(1960RA18, 1961DU02) ^c	(1965CHI0) ^c	(1967WA06) ^c	(1968GR1G, 1968GR1H) ^a	(1967MA1G, 1968MA33) ^a		
0	0					0	0	1 ⁺ ; 0
0.934 \pm 10	0.943 \pm 7	0.939 \pm 5	0.9374 \pm 1.5	0.9370 \pm 1	e	0.937 \pm 8	2	3 ⁺ ; 0
1.038 \pm 10	1.047 \pm 7	1.041 \pm 5	1.0446 \pm 1.5	1.0413 \pm 1.5			0	0 ⁺ ; 1
1.076 \pm 10 ^b	1.089 \pm 7	1.070 \pm 20	1.0817 \pm 1.5	1.0803 \pm 1				0 ⁻ ; 0
1.119 \pm 10	1.128 \pm 7	1.170 \pm 10 ^d	(1.1197 \pm 2)		1.120 \pm 5	1.111 \pm 7	4	5 ⁺ ; 0
1.698 \pm 10	1.708 \pm 7	1.680 \pm 20	1.7035 \pm 2	1.7003 \pm 1.5	e	1.680 \pm 24	0	1 ⁺ ; 0
2.096 \pm 10	2.102 \pm 7	2.090 \pm 10	2.1026 \pm 2	2.1005 \pm 1.5	e	2.096 \pm 13		2 ⁻ ; 0
2.517 \pm 10	2.521 \pm 10	2.510 \pm 10	2.5297 \pm 2	2.5235 \pm 1.5	e	2.509 \pm 18	2	2 ⁺ ; 0
3.055 \pm 10	3.058 \pm 10	3.060 \pm 50		3.0603 \pm 3		3.062 \pm 15	2	2 ⁺ ; 1
3.128 \pm 10	3.130 \pm 10	3.110 \pm 50		3.1339 \pm 3				1 ⁻ ; 0
3.352 \pm 10	3.355 \pm 10	3.350 \pm 100	(3.3505 \pm 3)	3.3581 \pm 3		3.352 \pm 16		(3) ⁺
3.715 \pm 10	3.724 \pm 10			3.7248 \pm 3				1 ⁺ ; 0
3.783 \pm 10								(3 ⁻); 0
3.830 \pm 10	3.843 \pm 10	3.840 \pm 100		3.8385 \pm 3.5	e	3.830 \pm 12	2	2 ⁺ ; 0
4.108 \pm 10					4.120 \pm 5	4.134 \pm 11		\leq 3; 0
4.218 \pm 10					4.232 \pm 5			(2)
4.350 \pm 15					4.362 \pm 5	4.378 \pm 9		2, 3
					4.403 \pm 5			\geq 2; 0
					4.659 \pm 5	4.651 \pm 12	4	4 ⁺ ; 1
					4.739 \pm 5			0 ⁺ ; 1
					4.852 \pm 5	4.843 \pm 12		1; 0
					4.955 \pm 5	4.967 \pm 21		2 ⁺ ; 1
						5.297 \pm 25		T = 0
						5.601 \pm 12		(4 ⁺); 0
						6.105 \pm 8		
						6.265 \pm 13		(1 ⁺)
						6.779 \pm 7		2 ⁻ ; 0
						7.206 \pm 9		(1 ⁺)
						7.646 \pm 14		T = 0
						7.874 \pm 22		(2 ⁻); 0
						9.145 \pm 32		
						9.404 \pm 31		
						9.82 \pm 40		
						10.06 \pm 45		
						10.352 \pm 25		
						10.96 \pm 60		
						11.13 \pm 50		

^a From measurements of proton groups.

^b (1958KU81) report $E_x = 1.080 \pm 0.010$ MeV.

^c From measurements of γ -rays.

^d The transition 1.13 \rightarrow 0.94 is observed: $E_\gamma = 189 \pm 4$ keV (1960RA18).

^e Observed but E_x not determined.

^f (1959HI74, 1967PU03, 1968PO1B, 1969PO11).

^g See discussion in (1968MA33) and Table 18.14.