

Table 16.26 from (1982AJ01): ^{16}F levels from $^{14}\text{N}(^3\text{He}, \text{n})$, $^{16}\text{O}(\text{p}, \text{n})$, $^{16}\text{O}(^3\text{He}, \text{t})$ and $^{19}\text{F}(^3\text{He}, ^6\text{He})$

$^{16}\text{F}^*$ ^b (MeV \pm keV)	L ^b	$^{16}\text{F}^*$ ^c (MeV \pm keV)	$J\pi$ ^d	$^{16}\text{F}^*$ ^e (MeV \pm keV)	$^{16}\text{F}^*$ ^f	$\Gamma_{\text{c.m.}}$ ^g (keV)	$J\pi$ ^h
0	1	0	(1 ⁻)	0	0	40 \pm 20	(0) ⁻
0.192 \pm 15	1	0.190 \pm 20	(0 ⁻)	0.197 \pm 12	0.19 \pm 20	40	(1) ⁻
0.425 \pm 15	3	0.425 \pm 10	(≥ 2)	0.424 \pm 5	0.425 \pm 20	40 \pm 30	(2) ⁻
0.722 \pm 10	(3)	0.725 \pm 10	(≥ 2)	0.720 \pm 6	0.72 \pm 20	< 15	(3) ⁻
3.751 \pm 10	0	3.775 \pm 10	(1)	j	3.75 \pm 20	< 40	1 ⁺
3.861 \pm 10	2	3.880 \pm 10			3.86 \pm 20	< 20	(2) ⁺
4.370 \pm 10		4.375 \pm 10	(≥ 2)		4.37 \pm 20	50 \pm 20	
4.646 \pm 10	0	4.661 \pm 10		j	4.66 \pm 20	60 \pm 20	1 ⁺
					4.71 \pm 20 ⁱ		
4.973 \pm 10	2				4.97 \pm 20 ⁱ		$\pi = +$
5.264 \pm 20							
5.390 \pm 20	2				5.39 \pm 20 ⁱ		$\pi = +$
5.448 \pm 20							
5.528 \pm 20	2				5.53 \pm 20		$\pi = +$
5.840 \pm 40							
					6.05 \pm 20 ⁱ		
6.230 \pm 50				j			
6.371 \pm 20							
6.678 \pm 10					6.68 \pm 20		
					6.93 \pm 20 ⁱ		
7.110 \pm 20							
7.730 \pm 40				j			

^a See also Table 16.33 in (1971AJ02).

^b $^{14}\text{N}(^3\text{He}, \text{n})^{16}\text{F}$ (1973BO50; $E(^3\text{He}) = 13$ MeV).

^c $^{14}\text{N}(^3\text{He}, \text{np})^{15}\text{O}$ (1976OT02; $E(^3\text{He}) = 6.5 - 7.8$ MeV).

^d From angular correlation studies (1976OT02).

^e $^{16}\text{O}(\text{p}, \text{n})^{16}\text{F}$ (1971MO34; $E = 23.9$ MeV).

^f $^{16}\text{O}(^3\text{He}, \text{t})$ and $^{19}\text{F}(^3\text{He}, ^6\text{He})^{16}\text{F}$ (1977NA19; $E(^3\text{He}) = 35$ and 70 MeV, respectively).

^g $^{14}\text{N}(^3\text{He}, \text{n})^{16}\text{F}$ (1965ZA01, 1976OT02).

^h See (1965PE04, 1973BO50, 1974FL06, 1976OT02, 1977NA19).

ⁱ Observed only in $^{19}\text{F}(^3\text{He}, ^6\text{He})$.

^j Strongly excited states at $E_x = 7.6, 9.4$ and 11.5 MeV (with $\Delta l = 1$ distributions) and weakly excited states at $E_x = 3.76, 4.65$ and 6.23 MeV ($l = 0$) are reported by (1981ANZX: abstract).