

Table 16.28 from (1977AJ02): ^{16}F levels from $^{14}\text{N}(^3\text{He}, \text{n})^{16}\text{F}$, $^{16}\text{O}(\text{p}, \text{n})^{16}\text{F}$ and $^{16}\text{O}(^3\text{He}, \text{t})^{16}\text{F}$ ^a

$^{16}\text{F}^* \text{ }^{\text{b}}$ (MeV \pm keV)	$L \text{ }^{\text{b}}$	$^{16}\text{F}^* \text{ }^{\text{c}}$ (MeV \pm keV)	$J\pi \text{ }^{\text{d}}$	$^{16}\text{F}^* \text{ }^{\text{e}}$ (MeV \pm keV)	$^{16}\text{F}^* \text{ }^{\text{f}}$ (MeV \pm keV)	$\Gamma_{\text{c.m.}} \text{ }^{\text{g}}$ (keV)	$J\pi \text{ }^{\text{h}}$
0	1	0	(1 ⁻)	0	0	40 \pm 20	(1) ⁻
0.192 \pm 15	1	0.190 \pm 20	(0 ⁻)	0.197 \pm 12	i	40	(0) ⁻
0.425 \pm 15	3	0.425 \pm 10	(\geq 2)	0.424 \pm 5	i	40 \pm 30	(2) ⁻
0.722 \pm 10	(3)	0.725 \pm 10	(\geq 2)	0.720 \pm 6	i	< 15	(3) ⁻
3.751 \pm 10	0	3.775 \pm 10	(1)		i	< 40	1 ⁺
3.861 \pm 10	2	3.880 \pm 10				< 20	(2) ⁺
4.370 \pm 10		4.375 \pm 10	(\geq 2)		4.25 \pm 50	50 \pm 20	
4.646 \pm 10	0	4.661 \pm 10				60 \pm 20	1 ⁺
4.973 \pm 10	2						$\pi = +$
5.264 \pm 20							
5.390 \pm 20	2				5.45 \pm 50		$\pi = +$
5.448 \pm 20							
5.528 \pm 20	2						$\pi = +$
5.840 \pm 40					5.9 \pm 50		
6.230 \pm 50							
6.371 \pm 20					6.4 \pm 50		
6.678 \pm 10							
7.110 \pm 20							
7.730 \pm 40							

^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 $^{16}\text{O}(^3\text{He}, \text{t})^{16}\text{F}$ (1965PE04; $E(^3\text{He}) = 40.2$).

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

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

ⁱ These states were observed but E_x was not determined.