

Table 15.23 from (1976AJ04):
Levels of ^{15}O from $^{13}\text{C}(^3\text{He}, n)^{15}\text{O}$

E_x^a (MeV)	$J\pi^b$	L^c	L^d	S^e
g.s.	$\frac{1}{2}^-$	0	0	1 ^g
5.18 ^f	$\frac{1}{2}^+$	1	1	0.15
5.24 ^f	$\frac{5}{2}^+$	3	3	0.17
6.18	$\frac{3}{2}^-$	2	2	0.10 ^h
6.79 ^f	$\frac{3}{2}^+$	1	1	0.12
6.86 ^f	$\frac{5}{2}^+$	3	3	0.29
7.28	$\frac{7}{2}^+$	3	3	(< 0.03)
7.56	$\frac{1}{2}^+$	1	1	0.02
8.28	$\frac{3}{2}^+$	1	1	(0.38)
8.74	$\frac{1}{2}^+$	1	1	
8.92 ^l		1		0.55 ⁱ
8.98	$(\frac{1}{2})^-$	0		0.44 ^j
9.49	$\frac{5}{2}^-$	2		
9.53	$(\frac{1}{2})^+$	1		
9.61	$\frac{3}{2}^-$	2		1.05 ^j
9.66	$(\frac{7}{2}, \frac{9}{2})^-$	0 ^k		
10.29 ^l			≥ 3	
10.48 ^l			2	

^a Nominal energies: see Table 15.18.

^b Known $J\pi$: see Table 15.18.

^c (1971ET1A, 1972ET01): $E(^3\text{He}) = 5.5$ and 6.2 MeV; used codes DWUCK and MANDY. See also (1971HI04, 1971HI1F): $E(^3\text{He}) = 6$ MeV.

^d (1972GE02): $E(^3\text{He}) = 6$ MeV.

^e (1971HI04); see also (1972GE02).

^f These states were unresolved.

^g $(p_{1/2})^2$.

^h $(p_{3/2}, p_{1/2})$.

ⁱ $(p_{1/2}, d_{3/2})$.

^j $(d_{5/2})^2$.

^k (1971HI04) report $L = 4$.

^l Known to be a doublet: see Table 15.19.