

Table 15.9 from (1981AJ01):
States of ^{15}N from $^{12}\text{C}(\alpha, p)^{15}\text{N}$, $^{12}\text{C}(^6\text{Li}, ^3\text{He})^{15}\text{N}$ and $^{12}\text{C}(^7\text{Li}, \alpha)^{15}\text{N}$

E_x (MeV \pm keV)			L^a	$J\pi^a$
(1975FA07) ^a	(1975BI06) ^b	(1973TS02) ^c		
0		0	1	$\frac{1}{2}^-$
5.27 + 5.30	5.27 \pm 60	5.295 \pm 10 ^c 6.332 \pm 10 7.163 \pm 10	2 + 0	
	7.24 \pm 60	7.310 \pm 10		
7.57	7.61 \pm 60	7.566 \pm 10 8.320 \pm 10	4	$\frac{7}{2}^+$
8.58	8.59 \pm 60	8.580 \pm 10 ^c	2	$\frac{3}{2}^+$
9.15 + 9.15	9.17 \pm 60 9.84 \pm 60	9.163 \pm 10 ^c 9.828 \pm 10 ^c 9.932 \pm 10 10.072 \pm 10 10.524 \pm 10	1 + 2	f
10.70	10.73 \pm 60 ^e	10.700 \pm 10 ^c 10.808 \pm 10 11.430 \pm 10 12.05 \pm 60 12.36 \pm 60 12.64 \pm 60 12.923 \pm 10	4	$\frac{9}{2}^+$ f
13.01		13.004 \pm 10 ^c	5	$(\frac{11}{2}^-)$
13.19	13.15 \pm 60 ^e	13.173 \pm 10 ^c 13.614 \pm 10 14.087 \pm 10 14.720 \pm 10 15.021 \pm 10	2	
15.40	15.49 \pm 60 ^e	15.373 \pm 10 15.782 \pm 10	6	$\frac{13}{2}^+$ f

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E_x (MeV \pm keV)			L^a	$J\pi^a$
(1975FA07) ^a	(1975BI06) ^b	(1973TS02) ^c		
	15.88 \pm 60	16.026 \pm 10		
	16.18 \pm 60	16.190 \pm 10		
	16.41 \pm 60			
	16.74 \pm 60			
	18.02 \pm 60			
	18.82 ^g			
	19.77 \pm 60			

^a $E_\alpha = 96.8$ MeV. E_x are nominal.

^b $E(^6\text{Li}) = 60.1$ MeV: angular distributions measured for states with $E_x < 16.2$ MeV.

^c $E(^7\text{Li}) = 35$ MeV: angular distributions have been measured for the states labeled by this footnote.

^d (1973TS02) suggest that this state is not the $T = \frac{3}{2}$ state at 12.52 MeV.

^e $\Gamma_\gamma/\Gamma = 0.9 \pm 0.2, < 0.25, < 0.25$ for $^{15}\text{N}^*(10.69, 13.15, 15.5)$ (1977KR1A).

^f See also (1979VA08).

^g (1977ZE1E); preliminary work.