

Table 14.15 from (1981AJ01): Excited states of ^{14}N from $^{12}\text{C}(^3\text{He}, \text{p})^{14}\text{N}$ ^a

E_x (MeV \pm keV) (1971DU03)	E_x (MeV \pm keV) (1969HO23)	L^i	$J^\pi; T$
	0	2	
	2.319 \pm 15	0	
3.9502 \pm 1.5	3.952 \pm 15	0	
4.9153 \pm 1.4	4.927 \pm 15	1	
$\equiv 5.10587 \pm 0.18$ ^b	5.117 \pm 15	1	
5.6888 \pm 1.4	5.713 \pm 15	1	
5.8324 \pm 1.4	5.885 \pm 15	3	
6.2025 \pm 1.4	6.224 \pm 15	0	
6.4449 \pm 1.4	6.468 \pm 15	2	
7.0279 \pm 1.4	7.036 \pm 15	2	
7.9649 \pm 1.4	7.974 \pm 15	3	
	8.072 \pm 15	1	
8.4864 \pm 1.5 ^c	8.493 \pm 15	3	$4^-; 0^{e,i}$
8.6174 \pm 4	8.625 \pm 15	0	$(0^+; 1)^k$
8.9099 \pm 1.9 ^d	8.912 \pm 15		$(3^-; 1)^k$
8.9598 \pm 1.4			
	8.97 \pm 15		
8.9773 \pm 4			$(2^+; 0)^k$
9.1241 \pm 1.5	9.126 \pm 15		n
9.1674 \pm 1.4	9.176 \pm 15	j	$(2^+; 1)^k$
9.3854 \pm 1.6 ^d	9.389 \pm 15		$2^-; 0^{i,l}$
	9.51 ^e		$(2^-; 1)^k$
	9.703 \pm 15		$(1^+; 0)^k$
	10.063 \pm 15 ^f		$3^+, \geq 4^e$
	10.101 \pm 15		$1^+; 2^+ e$
	10.23 ^e		1 ^e
	10.441 \pm 15	j	$(2^+; 1)^k$
	10.56 ^e		1, 2 ^e
	10.812 \pm 15		$5^+; 0^{e,m}$
	11.053 \pm 15		

Table 14.15 from (1981AJ01): Excited states of ^{14}N from $^{12}\text{C}(^3\text{He}, \text{p})^{14}\text{N}$ ^a (continued)

E_x (MeV \pm keV) (1971DU03)	L^i	$J^\pi; T$
(1969HO23)		
11.249 \pm 15		
11.357 \pm 15		
11.517 \pm 15		
g		
12.29 \pm 15		
12.425 \pm 15		
12.506 \pm 15		
12.608 \pm 15		
12.69 \pm 15		
12.80 \pm 15		
12.90 \pm 25 ^h		
13.15 \pm 40		
14.91 \pm 60		
15.8 \pm 200		
17.4 \pm 200		

^a See also Tables 14.14 in (1970AJ04) and 14.18 in (1976AJ04).

^b All E_x shown by (1971DU03) are measured relative to this energy obtained by (1967CH19) from E_γ .

^c $\Gamma_p/\Gamma = 0.73 \pm 0.10$ (1974NO01).

^d The widths of $^{14}\text{N}^*(8.91, 9.39)$ are, respectively, 19.7 ± 1.9 and 15.6 ± 2.0 keV.

^e (1974NO01): from a study of decay proton correlation ($^{12}\text{C}(^3\text{He}, \text{p}')^{14}\text{N}^*(\text{p})^{13}\text{C}_{\text{g.s.}}$) with the relevant p' group.

^f $\Gamma < 10$ keV (J.W. Noe, private communication).

^g Three states at 11.66 ± 0.04 , 11.79 ± 0.11 , 11.95 ± 0.03 MeV are reported by (1968MA29).

^h This state and the states below are from (1968MA29).

ⁱ (1968MA29).

^j $\theta_p^2(l=3) = (2.3 \pm 1.1) \times 10^{-3}$ and $< 1.6 \times 10^{-3}$ for $^{14}\text{N}^*(9.17, 10.43)$ (1974NO01).

^k Known from other data: consistent with results of (1974NO01).

^l The results of (1974NO01) are consistent with either $J^\pi = 2^-$ or 3^- for this state.

^m (1972NO08): from study of angular correlations. See also (1968MA29).

ⁿ Unresolved doublet; see reactions 22 and 27.