

Table 14.18 from (1981AJ01):
 ^{14}N levels from $^{13}\text{C}(\text{d}, \text{n})^{14}\text{N}$ and $^{13}\text{C}(^3\text{He}, \text{d})^{14}\text{N}$

$^{14}\text{N}^*$ (MeV)	$J^\pi; T$	l_p^a	l_p^b
g.s.	$1^+; 0$	1	1
2.31	$0^+; 1$	1	1
3.95	$1^+; 0$	1	1
4.92	$0^-; 0$	0	0
5.11	$2^-; 0$	2	2
5.69	$1^-; 0$	0	0
5.83	$3^-; 0$	2	2
6.20	$1^+; 0$	isotropic ^c	1
6.44	$3^+; 0$	1 ^c	1
7.03	$2^+; 0$	1	1
7.97	$2^-; 0$	^d	1, 2 ^g
8.06	$1^-; 1$	0 ^e	
8.49	$4^-; 0$	(3, 4) ^b	4 ^h
8.62	$0^+; 1$	0 ^f , 1 ^k	1 ⁱ
8.91	$3^-; 1$	2 ^{c,k}	2 ^j
8.98	$2^+; (0)$	(1, 2, 3)	
9.13	$2^-; 0$	2 ^k	1
9.17	$2^+; 1$	(1, 3) ^k	
9.39	$2^-, 3^-; 0$	2 ^k	1
9.51	$2^-; 1$	2 ^k	1
9.70	$1^+; 0$	1 ^k	

^a $^{13}\text{C}(\text{d}, \text{n})^{14}\text{N}$: $E_d = 5.5$ and 6 MeV (1966FU10), 4.5 , 5.0 and 5.5 MeV (1973BO10), 6.5 MeV (1975BO35).

^b $^{13}\text{C}(^3\text{He}, \text{d})^{14}\text{N}$: $E(^3\text{He}) = 15$ MeV (1966HO15, 1971FO05).

^c (1973BO10).

^d Angular distributions not complete because groups partly masked by contaminant.

^e (1973BO10) report $l = 1$ in their Table 1: this is a typographical error (see p. 367).

^f Expected $l = 1$ (1973BO10).

^g The width obtained for this state in $^{13}\text{C}(\text{p}, \gamma)$: $(2J + 1)\Gamma_p = 12.6 \pm 3.6$ eV implies $l_p = 2$ and therefore odd parity: Γ_p is then 2.5 ± 0.07 eV, based on $J = 2$ (1972BA56).

^h $\Gamma_p < 9.9 \times 10^{-2}$ eV (1971FO05).

ⁱ $\Gamma_p < 18$ keV (1971FO05).

^j $\Gamma_p = 12.1$ keV (1971FO05).

^k (1975BO35).

^l Observed (1980HA1E).