

Table 14.21 from (1986AJ01): ^{14}N levels from $^{13}\text{C}(d, n)$ and $^{13}\text{C}(^3\text{He}, d)$ ^a

$^{14}\text{N}^* \text{ }^b$ (MeV \pm keV)	$J^\pi; T \text{ }^b$	$l_p \text{ }^c$	$l_j \text{ }^d$	$(2J_f + 1)C^2S \text{ }^d$
0	$1^+; 0$	1	$p_{1/2}$	2.27
2.31	$0^+; 1$	1	$p_{1/2}$	0.92
3.95	$1^+; 0$	1	$p_{3/2}$	1.10
4.92	$0^-; 0$	0	$s_{1/2}$	0.29
5.11	$2^-; 0$	2	$d_{5/2}$	1.79
5.69	$1^-; 0$	0	$s_{1/2}$	0.91
			$d_{3/2}$	0.29
5.83	$3^-; 0$	2	$d_{5/2}$	2.19
6.20	$1^+; 0$	1	$p_{1/2}$	0.032
6.45	$3^+; 0$	1	$f_{7/2}$	(0.1)
7.03	$2^+; 0$	1	$p_{3/2}$	0.31
7.97	$2^-; 0$		$d_{5/2}$	0.051
8.06	$1^-; 1$	0	$s_{1/2}$	0.10
			$d_{3/2}$	< 0.006
8.49	$4^-; 0$	$4 \text{ }^{h,i}$		
8.62	$0^+; 1$	1 ^j	$p_{1/2}$	0.021
8.79	$0^-; 1$		$s_{1/2}$	< 0.009
8.91	$3^-; 1$	2 ^k	$d_{5/2}$	3.32
8.98	$2^+; (0)$	(1, 2, 3)	$p_{3/2}$	< 0.2
9.12	$(2^-; 0) \text{ }^g$	2	$d_{5/2}$	0.14
9.17	$2^+; 1$	(1, 3)	$p_{3/2}$	< 0.08
9.39	$2^-; 0$	2	$d_{5/2}$	0.62
9.51	$2^-; 1$	2	$d_{5/2}$	1.31
9.70	$1^+; 0$	1	$p_{1/2}$	0.039
10.085 ± 12	$(1 - 3)^- \text{ }^e$		$d_{5/2}$	0.054
10.222 ± 12	$(0 - 2)^+ \text{ }^e$		$p_{1/2}$	0.16
10.534 ± 20	$(0 - 2)^+ \text{ }^{e,f}$		$p_{1/2}$	0.34
10.81	$5^+; 0 \text{ }^f$			
11.05	$(3^+) \text{ }^{e,f}$			
11.26 ± 50	$(0 - 2)^+ \text{ }^{e,f}$		$p_{1/2}$	0.22
11.49 ± 40	$(0 - 2)^+ \text{ }^{e,f}$		$p_{3/2}$	0.040

Table 14.21 from (1986AJ01): ^{14}N levels from $^{13}\text{C}(\text{d}, \text{n})$ and $^{13}\text{C}(^3\text{He}, \text{d})$ ^a (continued)

$^{14}\text{N}^*$ ^b (MeV \pm keV)	$J^\pi; T$ ^b	l_p ^c	l_j ^d	$(2J_f + 1)C^2S$ ^d
11.66 ± 40	$(0 - 2)^+$ ^{e,f}		$p_{1/2}$	0.092

^a See also Table 14.18 in (1981AJ01) and 14.23 in (1976AJ04).

^b From Table 14.12.

^c $^{13}\text{C}(\text{d}, \text{n})^{14}\text{N}$: $E_d = 4.5$ to 6.5 MeV.

^d $^{13}\text{C}(^3\text{He}, \text{d})^{14}\text{N}$: $E(^3\text{He}) = 43.6$ MeV (1981PE07); DWBA.

^e From (1981PE07).

^f $\Gamma \approx 200, 50, 50, 80, 80$ and 100 keV for $^{14}\text{N}^*(10.53, 10.81, 11.06, 11.26, 11.51, 11.66)$.

^g See, however, Table 14.12.

^h Observed in (d, n) and ($^3\text{He}, \text{d}$).

ⁱ $\Gamma_p < 9.9 \times 10^{-2}$ eV.

^j $\Gamma_p < 18$ keV.

^k $\Gamma_p = 12.1$ keV.