

Table 13.14 from (1981AJ01): Levels of ^{13}C from $^{12}\text{C}(\text{d}, \text{p})^{13}\text{C}$

^{13}C (MeV \pm keV)		Γ_{cm} (keV)	l_n^b	J^π^b	S
(1955MC75)	(1973GO03, 1980WA24)				
0			1	$\frac{1}{2}^-$	0.58 ± 0.04^c 1.1 ^d
3.09	3.089443 ± 0.020^g		0	$\frac{1}{2}^+$	0.36 ± 0.02^c 1.1 ^d
3.68	3.684482 ± 0.023^g		1	$\frac{3}{2}^-$	0.10 ^d
3.85	3.853783 ± 0.022^g		2	$\frac{5}{2}^+$	1.1 ^d
6.86			2	$\frac{5}{2}^+$	0.04 ^d
7.470 ± 20					
7.533 ± 20					
7.641 ± 20		70 ± 15			
8.4 ± 300	8.25 ^f 8.86 ^f	1100 ± 300	2 1	$\frac{3}{2}^+$ $\frac{1}{2}^-$	1.0 ^{d,e} 0.5 ^{d,e}
9.500 ± 20			(1)	$(\frac{3}{2}^-)$	
9.897 ± 20			1	$\frac{3}{2}^-$	0.1 ^{d,e}
10.759 ± 20	10.755 ± 5	56 ± 2			
	10.818 ± 5	24 ± 3			
	10.997 ± 8	82 ± 15			
	11.080 ± 5	8			
	11.748 ± 10	107 ± 14			
	11.851 ± 5	68 ± 4			
	11.97 ± 40^a	≈ 260			
	12.108 ± 5	81 ± 8			

^a May correspond to unresolved states.

^b See (1970AJ04, 1973DA17).

^c (1972PE11).

^d (1973DA17) [HD parameters]. See also Table 13.14 in (1970AJ04).

^e $\Gamma_{\text{d,p}}/\Gamma_n = 0.68, 0.91$ and 2.2 for $^{13}\text{C}^*(8.2, 8.86, 9.90)$, respectively (1973DA17).

^f Nominal energies (1973DA17).

^g From E_γ measurements (1980WA24). See also (1975TR07).