

Table 16.3 from (1982AJ01): States of ^{16}C from $^{14}\text{C}(\text{t}, \text{p})$

E_x (keV)		L^a	J^b
(1977FO09)	(1978SE04)		
0	0	0	
1766 ± 10	1.77^e	2	2
3020 ± 15	3039 ± 20	(0) ^c	
3983 ± 10	3990 ± 10	(2) ^c	2 ^f
4083 ± 10	4094 ± 10	(3) ^c	3 ^g
4136 ± 10	4194 ± 10	4	4
6109 ± 15^d		2, 3, 4	

^a From angular distribution measurements analyzed by DWBA $E_t = 18$ MeV (1977FO09) and 23 MeV (1978SE04).

^b From $\gamma\gamma$ correlation measurements at $E_t = 12$ MeV (1977BA59).

^c This state is weakly excited.

^d $\Gamma \leq 25$ keV.

^e State observed but E_x no determined.

^f (1978SE04) suggest that the state is 2^- by comparison with the transition to $^{14}\text{C}^*(7.38)$.

^g The very low intensity of the proton group to $^{16}\text{C}^*(4.14)$ suggests $J^\pi = 3^+$: see e.g. (1978SE04).