

Table 14.2 from (1959AJ76): Proton groups from $^{13}\text{C}(\text{d}, \text{p})^{14}\text{C}$

(1954SP01)	(1955MC75)			(1958WA02)		
E_x (MeV \pm keV)	E_x (MeV \pm keV)	$d\sigma/d\Omega$ ^b (mb/sr)	l_n ^c	J^π	J^π	θ_n^2 ^h
0	0	10	1	$0^+, 1^+, 2^+$	0^+	0.10 ($J = 0^+$)
6.091 ± 10	6.09	62	0^g	$0^-, 1^-$	1^-	0.40 ($J = 1^-$)
	6.589 ± 20	1.6	$1, 2, 3^d$	$(1^-, 2^\pm, 3^-)$		$\lesssim 0.01$
6.723 ± 10^a	6.72	74	2	$1^-, 2^-, 3^-$	$3^-, (2^-)$	0.11 ($J = 3^-$)
6.894 ± 10^a	6.89	22	$0, 1^d$	$0^\pm, 1^\pm, 2^+$	0^-^d	0.39 ($J = 0^-$)
	7.346 ± 20	56	2	$1^-, 2^-, 3^-$	$2^-, 3^-$	0.11 ($J = 2^-$)
	8.321 ± 20	2.2				
	9.800 ± 20	7.1				
	10.433 ± 20	≈ 1.9				
	10.505 ± 20	≈ 1.4				
	11.9 ± 300^e	90				
	12.601 ± 20^f	6.3				
	12.854 ± 20	1.0				
	12.958 ± 20	1.9				

^a The spacing of these two levels is 171 ± 3 keV (1954SP01).

^b Differential cross section at the first maximum or in the forward direction, $\pm 25\%$ (1955MC75: $E_d = 14.8$ MeV).

^c See also (1952BR1C, 1953BE1D, 1956EL1A).

^d See footnotes 18 and 31 in (1958WA02).

^e $\Gamma_{\text{lab}} = 1.10 \pm 0.30$ MeV.

^f $\Gamma_{\text{lab}} = 0.130 \pm 0.020$ MeV.

^g With $J = 1^-$, $\theta^2 = 0.32$ (1956EL1A).

^h E. Baranger, private communications: see (1959WA04).