

Table 12.22 from (1968AJ02): $^{12}\text{C}(p, p)^{12}\text{C}$ angular distribution and correlation studies ^a

(a) Angular distribution of protons

E_p (MeV)	Angular distribution of $^{12}\text{C}^*$	Refs.
2.4 – 13	g.s., 4.4, 7.7	(1966BA35, 1966SW04)
2.5 – 3.0	g.s.	(1965BE1L)
4.7 – 8.7	g.s. (and 4.4 at 8.7 MeV)	(1965MO15)
4.7 – 11.0	g.s., 4.4	(1960DE1C)
5 – 20	g.s., 4.4	(1962RO14)
6.5 – 16	g.s., 4.4	(1961NA02)
6.9	4.4	(1961GO13)
9.4 – 9.6	g.s.	(1953BU72, 1957GI14, 1957GR53, 1959GR1C)
9	g.s.	(1961HO09)
9.2, 10	4.4	(1961MC16)
12	4.4	(1957CO53)
13.6 – 19.6	g.s., 4.4, 7.7, 9.6	(1964DA03)
14 – 19.4	g.s., 4.4	(1957PE14)
14.5	g.s., 4.4	(1962ST11)
14.5, 20, 31.5	g.s.	(1955KI43, 1956KI54)
17	g.s.	(1956DA03)
17.5 – 20	12.7	(1962WA31)
19.5	15.1	(1962WA31)
17.8	g.s., 4.4	(1965BA54)
18.9	9.6	(1961BR08)
18 – 30	g.s., 4.4, 7.7, 9.6, 12.7	(1963DI04, 1963DI16)
29	g.s., 4.4	(1966CR14)
30.3	g.s.	(1964RI07)
30.6	g.s., 4.4, 9.6	(1952BR52)
31.1	g.s., 4.4, 7.7, 9.6, 12.7, 14.0, 15.1, 16.1	(1963DI04)
40	4.4, 7.7, 9.6	(1964ST15)
40	g.s., 4.4, 7.7, 9.6	(1963HW01, 1966BL19)
40	g.s.	(1967FR20)
40	4.4	(1959CH1B, 1966FR1G)
46	4.4, 7.7, 9.6, 10.8, 11.8, 12.7, 14.0, 15.1, 16.1	(1967PE05, 1967SA13)
48	g.s., 4.4, 7.7, 9.6, 18.4	(1965WI1H)
49	g.s., 4.4	(1966CR14)
49.5	g.s., 4.4, 7.7	(1967FA06)
57	g.s., 4.4	(1962NO08, 1962YA04)
68	g.s., 4.4	(1963PO06)
95, 135	4.4	(1957DI28)
96	g.s.	(1957GE08)

Table 12.22 from (1968AJ02): $^{12}\text{C}(p, p)^{12}\text{C}$ angular distribution and correlation studies ^a (continued)

(a) Angular distribution of protons

E_p (MeV)	Angular distribution of $^{12}\text{C}^*$	Refs.
96	g.s., 4.4, 9.6, 20.8	(1956ST65)
100	g.s., 4.4, 7.7, 9.6	(1966MA38)
142	g.s.	(1961TA06)
143	g.s.	(1964ST16)
145	g.s., 4.4, 9.6, 14, 18.5	(1966EM01, 1966JA03, 1966JA07)
150	15.1	(1961DE16)
155	g.s., 4.4, 7.7, 9.6, 15.1	(1957AL39, 1966JA03)
180	g.s.	(1961JO18)
185	4.4, 7.7, 9.6, 12.7, 15.1, 16.1, 18.2, 19.3	(1964HA34, 1965HA17)
185	13.9	(1967JO1F)
660	g.s.	(1963AZ01, 1963AZ1B, 1963AZ1C)
725	g.s.	(1965MC04)
1000	g.s., 4.4, 7.6 + 9.6	(1967FR10, 1967PA25)

(b) Angular correlation of protons and gamma rays

E_p (MeV)	States involved	Refs.
6.5	4.4	(1960HA21, 1961AD04)
8.5	4.4	(1964BA14)
9.9 – 14.6	4.4	(1963NA1D)
10 – 10.8	4.4	(1959BR1J, 1964SC07)
12 – 15	4.4	(1966SC1L)
39	4.4	(1960AD1A, 1964AD1A)
147	4.4	(1964RO23)
150	4.4, 15.1	(1961DE16, 1962SA05)

^a See also ^{13}N .