

Table 12.17 from (1990AJ01):

Recent work ^a on $^{12}\text{C}(p, p)$, $^{12}\text{C}(d, d)$, $^{12}\text{C}(t, t)$, $^{12}\text{C}(^3\text{He}, ^3\text{He})$ and $^{12}\text{C}(\alpha, \alpha)$ angular distributions

E_p (MeV)	To states in ^{12}C at E_x (MeV)	References
19 \rightarrow 35 ^b	4.4, 7.7	(1985BAZZ) ^c
12.1 \rightarrow 83.8 ^b	0	(1987IE01)
29.5 \rightarrow 39.9	0, 4.4, 7.7	see (1986PI01)
65 ^b	0, 4.4, 7.7, 9.6, 14.1	(1985KA10)
80 ^b	12.7, 15.1	(1986HO1H, 1986NO1E) ^c
250 ^b	0	(1988ME02)
300	0	(1985ME07)
398, 597, 698 ^b	0, 4.4, 9.6, 14.1	(1986JO01)
800 ^b	0	(1987LIZZ) ^c
1 GeV	0	(1985AL16)
E_d (MeV)	To states in ^{12}C at E_x (MeV)	References
35-70 ^b	0	(1985KA1A, 1986KA1Z)
56 ^b	0	(1984HA26, 1986MA32)
E_t (MeV)	To states in ^{12}C at E_x (MeV)	References
33	0	(1987EN06)
36	0	(1986PE13)
$E(^3\text{He})$ (MeV)	To states in ^{12}C at E_x (MeV)	References
12	0	(1986SO1E)
22, 50, 60, 72	0	(1988AD1B) ^c
39.6	0	(1987BUZR) ^c
72	0, 4.4, 7.7, 9.6	(1988GOZF) ^c
E_α (MeV)	To states in ^{12}C at E_x (MeV)	References
1.47 \rightarrow 6.56	0	(1987PL03)
35	10.8, 11.8	(1984PE24)
48.7, 54.1	0	(1987AB03)
99.6	0	(1985BE1Q) ^c
120	7.7	(1986PI01)
172.5	0, 4.4, 7.7, 9.6, 14.0, 15.3, 18.4, 21.6, 24.0, 26.2, 29.2 ^d	(1987KI16)

^a For the earlier work see [Tables 12.17 in \(1980AJ01, 1985AJ01\)](#).

^b Polarized.

^c Preliminary report.

^d Uncertainty in E_x is ± 0.2 MeV.