

Table 12.20 from (1985AJ01): Recent work ^a on $^{12}\text{C}(^6\text{Li}, ^6\text{Li})$, $^{12}\text{C}(^7\text{Li}, ^7\text{Li})$, $^{12}\text{C}(^9\text{Be}, ^9\text{Be})$, $^{12}\text{C}(^{10}\text{B}, ^{10}\text{B})$ and $^{12}\text{C}(^{11}\text{B}, ^{11}\text{B})$, $^{12}\text{C}(^{12}\text{C}, ^{12}\text{C})$ and $^{12}\text{C}(^{16}\text{O}, ^{16}\text{O})$ angular distributions

$E(\text{Li})$ (MeV)	To states in ^{12}C at E_x (MeV)	References
$E(^6\text{Li}) = 9, 19.2^j$	0	(1983RU09)
20 \rightarrow 36	0, 4.4	(1980FU06) ^b
24, 30	0	(1983VIZW)
36	0, 4.4	(1982WO09)
40	0	(1979ZE01)
42.1	0, 4.4	(1978BE43)
90	0, 4.4, 9.6	(1981GL03)
99	0	(1981SC16)
156	0	(1982CO19) ^c
$E(^7\text{Li}) = 34$	0	(1983STZS)
48	0, 4.4, 7.7, 9.6 ^d	(1979ZE01)
63, 78.7	0, 4.4	(1980ZE03)
70	0 ^e	(1981SH01)
$E(^9\text{Be})$ (MeV)	To states in ^{12}C at E_x (MeV)	References
20	0	(1979BO1K)
27, 40	0	see (1978GR22)
50	0	(1977ST20)
140	0	(1984FUZZ)
158.3	0, 4.4	(1983FUZY, 1983SA20)
$E(\text{B})$ (MeV)	To states in ^{12}C at E_x (MeV)	References
$E(^{10}\text{B}) = 18 \rightarrow 46$	0	(1982MA20)
$E(^{11}\text{B}) = 25 \rightarrow 50$	0	(1982MA20)
28	0, 4.4 ^f	(1983SR01)
$E(^{12}\text{C})^g$ (MeV)	To states in ^{12}C at E_x (MeV)	References
12 \rightarrow 20	0	(1980TR07)
12.9 \rightarrow 14.0	0	(1979KO19)
23.30 \rightarrow 25.50	0	see (1983TA1J)
29.2 \rightarrow 62.6	0	(1983LE05)
30, 34, 40, 50	0	(1978CO20)

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40	4.4	(1981HE08)
45, 55, 65, 68	9.6, 14.1, 18.5	(1979TRZQ)
49, 60, 72.5	0, 4.4, 9 ^h	(1981CH1R)
52 → 64	7.7	(1984FU02)
57	7.7 + 7.7	(1982ZUZZ)
70.7 → 126.7	0, 4.4, 9 ^h	(1979ST10)
93.8	0, 4.4, 9 ^h	(1979FU04)
134.2 → 288.6	0	(1981CO22)
139.5, 158.8	0	(1983KU07)
300	0, 4.4	(1982BO32)
360	0	(1983LO1K)
1.02 GeV	0, 4.4	(1981BU08, 1982BU17)
$E(^{16}\text{O})^i$ (MeV)	To states in ^{12}C at E_x (MeV)	References
21 → 35	0	(1983FR02)
33	0	(1980FR05)
45.5 → 49.0	0	(1982WI04)
140, 218, 315	0	(1981BR05)
$E(^{12}\text{C})^i = 77$	0	(1979MO14)

^a See (1980AJ01) for the earlier work.

^b Used ^{12}C beams to obtain back angles.

^c See also (1982MA21, 1982MI1D; theor.).

^d Also $^7\text{Li}^*(0.48) + ^{12}\text{C}^*(0, 4.4)$.

^e Via $t + \alpha$ breakup of ^7Li projectile.

^f And $^{11}\text{B}^*(0, 2.1, 4.4)$.

^g Reaction 50.

^h Sum of excitation of both ^{12}C ions to $^{12}\text{C}^*(4.4)$ plus excitation to $^{12}\text{C}^*(9.6)$.

ⁱ Reaction 53.

^j Polarized.