

Table 12.24 from (1968AJ02): Summary of $^{12}\text{C}(\alpha, \alpha)^{12}\text{C}$ angular distribution data

E_α (MeV)	^{12}C states	Refs.
2.5 to 4.8	g.s.	(1962JO09)
7.9 to 8.1	4.4	(1964MI12)
7.9 to 19	4.4	(1964MI08)
8.8 to 10.1	g.s.	(1967BR1F)
11 to 19	g.s.	(1964CA07)
14	g.s., 4.4	(1963JO1F)
18	g.s., 4.4, 7.7, 9.6	(1959CO70)
18.5	7.7	(1964MI08)
18.7	g.s.	(1962WO02)
20	g.s., 4.4, 7.7, 9.6	(1959FU62)
20.3, 21.9	g.s., 4.4, 7.7, 9.6	(1964JO14)
21.2 to 22.7	g.s.	(1962JO14)
22	g.s., 4.4	(1959HU14)
22.5	g.s., 4.4	(1964EI01)
24	g.s.	(1967AG1A)
24.7	g.s.	(1964BU1E)
25	9.6	(1966BO28)
27.2	g.s.	(1966NE1D, 1967NE1F)
27 to 36	g.s., 4.4, 7.7, 9.6, 12.7	(1960MI03, 1960MI10)
28.5	g.s.	(1962AG01)
28.5	g.s., 4.4, 7.7, 9.6, 11.8, 12.7, 14.1	(1967NA06)
31.5	g.s., 4.4, 7.7	(1956WA29)
33.4	g.s., 4.4	(1967AR17)
38 ^a	g.s., 4.4, 7.7, 9.6	(1960AG01, 1960VA03)
40	g.s., 4.4, 7.7, 9.6	(1956IG02, 1957IG03, 1959YA01)
40.5	g.s., 4.4, 7.7, 9.6	(1966HA19)
42	g.s., 4.4	(1959EC13, 1962MC11)
51	g.s.	(1966VI1A)
56	g.s.	(1967SY1A)

^a (1960VA03) report $E_x = 4.38 \pm 0.04, 7.59 \pm 0.04, 9.67 \pm 0.06$ MeV.