

Table 12.39 from (2017KE05):  $^{12}\text{C} + ^{12}\text{C}$  scattering

$E(^{12}\text{C})$ (MeV)	To states in $^{12}\text{C}$ at $E_x$ (MeV)	References
6-126	g.s., 4.4, $14.0 \pm 0.5$	See references in (1968AJ02)
18.8-174	g.s., 4.4, 7.7, 9.6, 14.1, 19.6 and $^{12}\text{C}^*(4.4) + ^{12}\text{C}^*(4.4)$	See references in (1975AJ02)
10-126.7	g.s., 4.4, 7.65, 9.64, 14.07	See references in (1980AJ01)
12 MeV-1.02 GeV	g.s., 4.4, 7.7, 9.6, 14.1, 18.5 and $^{12}\text{C}^*(7.7) + ^{12}\text{C}^*(7.7)$	See references in (1985AJ01)
4 MeV-2.4 GeV	g.s., 4.4, 7.7, 9.6, 14.1	See references in (1990AJ01)
3.2-5	g.s.	(2001OS05)
4	g.s.	(1991VE02)
12.8-22.8	g.s.	(1991OS03)
24, 28	g.s.	(2012HA45)
33	$^{12}\text{C}^*(0, 4.4)^a$	(1997HA63)
50-80	g.s., 4.4, 7.65, 9.64 and mutual excitations <sup>a</sup>	(1993WU01, 1994WU07, 1994WU08, 1996WU11, 1997WU11, 2002WU01, 2003WU05, 2003WU12)
54-67	g.s., 4.4, 9.64	(1993DA22, 1995DA05)
60-68	g.s., 4.4, 7.65, 9.64 and mutual excitations <sup>a</sup>	(1997LE06)
60-70	g.s., 4.4, 7.7, 9.6, 14.1 and $^{12}\text{C}^*(4.4) + ^{12}\text{C}^*(4.4)^a$	(1997SZ01)
60-90	g.s., 4.4, 7.65, 9.64 and mutual excitations <sup>a</sup>	(1995CH07, 1996CH14, 1998CH48)
60-120	4.44, 9.64, 14.1 <sup>a</sup>	(1999SZ01)
60-120	g.s., 4.4, and $^{12}\text{C}^*(4.4) + ^{12}\text{C}^*(4.4)$	(1991MO03)
80-120	g.s., 4.4, 7.65, 9.64, 14.1 and mutual excitations <sup>a</sup>	(2002BR43)
120-160	g.s., 4.4, 7.65, 9.64	(2010OG03)
121.5	g.s., 4.4, 7.65	(2011MA04)
240	g.s.	(2010DE32)
240	g.s., 4.4	(1995PE09, 1997PE03)
344.5	g.s., 4.4	(1990JA12)
1200	g.s., 4.4, unresolved states	(2015QU02)
1.62 GeV	g.s.	(1994IC01)
<sup>b</sup>		

<sup>a</sup> Studies involving analysis of  $^{24}\text{Mg}$  resonance structures.

<sup>b</sup> See also Table 12.40.