

Table 12.16 from (1985AJ01): Summary of recent  $^{12}\text{C}(\pi, \pi)$  angular distributions

$E_{\pi^+}$ (MeV)	$E_{\pi^-}$ (MeV)	Angular distributions to $^{12}\text{C}$	References
13.9		g.s.	(1982GI08)
20		g.s.	(1983OB02)
	29	g.s.	(1978JO09)
29 → 56		g.s.	(1982GU08)
	29.2, 49.5	g.s.	(1979JO08)
30.3, 50		g.s.	(1981PR03)
34.7, 67.5		g.s., 4.4, 7.7, 9.6	(1981AM02)
40.0		g.s.	(1979BL07)
50		g.s., 4.4, 9.6	(1977DY02, 1978MO25, 1979DY02)
50		g.s.	(1983MIZY) <sup>a</sup>
65, 80	65, 80	g.s., 4.4	(1982BL09, 1983BL11)
80	80	g.s.	(1981DE1R)
80	80	g.s.	(1984LE01)
100	100	g.s., 4.4, 7.7, 9.6, 12.7	(1984AN11)
	120 → 280	g.s., 4.4, 9.6, 15.1	(1970BI1A)
125		g.s.	(1979NA04)
125, 162, 200		7.7	(1983MOZX) <sup>a</sup>
150 → 226	150 → 226	g.s., 4.4, 7.7, 9.6	(1977PI02, 1977PI09, 1979CH05)
162		g.s., 19.3	(1978MO23)
162		g.s.	(1984BUZZ) <sup>a,c</sup>
180	180	4.4, 7.7, 9.6	(1981MO17)
180	180	<sup>b</sup>	(1982MO25)

<sup>a</sup> Preliminary work.

<sup>b</sup> To gross structures of the giant resonance:  $E_x \approx 18.3, 19.3, 22.1, 23.7, 25.6$ . The pion scattering is dominated by the isovector giant dipole resonance.

<sup>c</sup> Large-angle scattering.