

Table 15.21 from (1970AJ04): Resonances in $^{12}\text{C} + {}^3\text{He}$

$E({}^3\text{He})$ (MeV \pm keV)	Resonant for	E_x^a (MeV)	J^π	$\Gamma_{\text{c.m.}}$ (keV)	Refs.
1.21	p0, p2	13.04	$(\frac{5}{2})^-$		(1957BR18)
1.3	p0, p1, p2, p3, d0, α_0	12.1			(1957BR18, 1965GR1R)
2.15	n, p0	13.79	$(> \frac{5}{2})$		(1957BR18)
2.45 \pm 40	n0, p0, p1, p2, p3	14.03	$(\frac{1}{2}^-, \frac{3}{2}^{\pm})$	160 \pm 20	(1957BR18, 1961TO03, 1964KU05, 1964KU06, 1964OS01)
2.75 \pm 40	n0, p1, p2, ${}^3\text{He}, \alpha$	14.27	$\frac{1}{2}^+$	340 \pm 30	(1957BR18, 1964KU05, 1964KU06, 1964OS01, 1966CI01, 1970JA1E)
2.990 \pm 10	n0, p0, p1, p2, p4, p5, p8, ${}^3\text{He}, \alpha_0$	14.460	$\frac{5}{2}^+$	100 \pm 10	(1958JO20, 1961TO03, 1964KU05, 1964KU06, 1964OS01, 1970JA1E)
3.28 \pm 40	p0	14.69		180 \pm 40	(1964KU05)
3.60 \pm 40	p0, p1, p2	14.95		400 \pm 25	(1958JO20, 1964KU05)
4.20 \pm 10	p5, p6, α_0	15.43		65 \pm 15	(1964KU05)
4.37 \pm 40	p0, p1, p2, p4, p7, p8, α_0	15.56	$\frac{1}{2}^+$	80 \pm 25	(1958JO20, 1961TO03, 1964KU05, 1966CI01)
4.65 \pm 50	n0	15.79			(1961TO03, 1964DI02, 1964KU05, 1964OS01)
4.77	α_0	15.89	$\frac{1}{2}^-, \frac{3}{2}^-$	350	(1969WE03)
4.97 \pm 20	α_0	16.04			(1969WE08)
5.03 \pm 20	α_0 } n0, ${}^3\text{He}$	16.09			{ (1961TO03, 1964DI02, 1964KU05, 1964OS01, 1966SC12, 1969WE08)
5.15 \pm 20	α_0	16.19			
5.45	α_0	16.43	$\frac{1}{2}^+$	170	(1969WE03)
5.88 \pm 50	n0, ${}^3\text{He}, \alpha_0$	16.77	$\frac{1}{2}^-, \frac{3}{2}^-$	200	(1964OS01, 1966SC12, 1969WE03)
6.80 \pm 50	n0, p	17.50	$\frac{1}{2}^-, \frac{3}{2}^-$	600	(1964OS01, 1969WE03, 1970SO1G)
7.4	α_0	17.99	$\frac{1}{2}^-, \frac{3}{2}^-$	200	(1969WE03)
7.70 \pm 50	n0, p	18.22			(1964OS01, 1970SO1G)
8.70 \pm 50	n0	19.02			(1964OS01)
9.80 \pm 50	n0, p	19.90			(1964OS01, 1970SO1G)

^a See also [text](#).