

Table 17.3 from (1959AJ76):
Resonances in $^{13}\text{C}(\alpha, n)^{16}\text{O}$ and $^{16}\text{O}(n, \alpha)^{13}\text{C}$

E_α (MeV \pm keV)	E_n	$\Gamma_{\text{c.m.}}$ (keV)	l_α	l_n	J^π	E_x in ^{17}O (MeV)	Refs.
1.063 \pm 4		2.7 \pm 1	3, 2	2, 3	$\frac{5}{2}^-$	7.161	a
1.340 \pm 4		≤ 2	3, 2	2, 3	$\frac{5}{2}^-$	7.373	a
1.585 \pm 7		≤ 4			$\geq \frac{7}{2}^-$	7.560	b
1.736 \pm 5		22			$\geq \frac{5}{2}^-$	7.676	b
2.080 \pm 20	4.0	90	1, 0		$\frac{1}{2}^\pm$	7.94	c
2.250 \pm 20	4.15	75	2, 1		$\frac{3}{2}^\mp$	8.07	d
2.420 \pm 20	4.25	60	1, 2	2, 1	$\frac{3}{2}^\pm$	8.20	d
2.603 \pm 5	4.46	≤ 5	1, 0		$\frac{1}{2}^-$	8.34	e
2.675 \pm 5	4.53	8	3, 2		$\frac{5}{2}^-$	8.39	f
2.760 \pm 5	4.59	9	3, 4		$\frac{7}{2}^\pm$	8.46	f
2.805 \pm 5	4.62	≤ 6	1, 2		$(\frac{3}{2}^\mp)$	8.493	e
3.08 \pm 15	4.85	70	1, 2		$\frac{3}{2}^\pm$	8.70	e
3.33 \pm 15	5.05	110	2, 1		$\frac{3}{2}^\mp$	8.89	f
3.42 \pm 15	5.13	30	3, 4		$\frac{7}{2}^\pm$	8.96	f
3.67 \pm 15		≤ 6				9.15	g
3.73		≤ 4			$\frac{5}{2}^-$	9.20	h
4.125		11			$\frac{7}{2}^-$	9.502	h
4.42		19			$\frac{7}{2}^-$	9.73	h
(4.50)		55				9.78	h
4.63		12			$\frac{9}{2}^-$	9.89	h
4.75		150			$\frac{5}{2}^-, \frac{7}{2}^-$	9.98	h
5.05		50				10.21	h

a (1953JO1A, 1956RU1A, 1957WA46).

b (1956RU1A, 1957WA46).

c (1955SE1A, 1956BO61, 1956RU1A, 1956SC1C, 1957WA46).

d (1954TR09, 1955SE1A, 1956BE98, 1956BO61, 1956RU1A, 1956SC1C, 1957WA46).

e (1956BE98, 1956BO61, 1956SC1C, 1957WA46).

f (1954TR09, 1956BE98, 1956BO61, 1956SC1C, 1957WA46).

g (1956BO61).

h (1956BO61, 1956SC1C).