

Table 19.24 from (1987AJ02): Resonances reported in  $^{16}\text{O} + {}^3\text{He}$  <sup>a</sup>

$E({}^3\text{He})$ (MeV)	Resonance in	$\Gamma_{\text{c.m.}}$ (MeV)	$E_x$ (MeV)	$J^\pi$
2.400	$p_{1 \rightarrow 4}, p_{5,6,7}, \alpha_0$	0.355	10.46	$\frac{1}{2}^+$
2.425	$p_{1 \rightarrow 4}, p_{5,6,7}, \alpha_0$	0.045	10.48	$\frac{3}{2}^+$
3.65	$p\gamma, {}^3\text{He}, \alpha_0$	0.025	$11.51 \pm 0.05$	$\frac{3}{2}^-, (\frac{1}{2}^-)$
4.50	${}^3\text{He}, \alpha_0$	$0.200 \pm 0.025$	$12.23 \pm 0.05$	$\frac{5}{2}^+$
4.70	${}^3\text{He}, \alpha_0$	$0.180 \pm 0.025$	$12.40 \pm 0.05$	$\frac{7}{2}^+$
5.05	$p_0, p_1, p_5, {}^3\text{He}$	$0.18 \pm 0.04$	$12.69 \pm 0.05$	$\frac{1}{2}^+$
6.37 <sup>b</sup>	$\gamma_0, \gamma_{1+2}$	$0.67 \pm 0.25$	$13.8 \pm 0.25$	
7.65 <sup>b</sup>	$\gamma_{1+2}$	$0.62 \pm 0.13$	$14.88 \pm 0.13$	
9.26 <sup>b</sup>	$\gamma_{1+2}, \mathbf{n}$	$0.40 \pm 0.13$	$16.23 \pm 0.13$	
11.8 <sup>b</sup>	$\Gamma_{0 \rightarrow 2}$	$4.4 \pm 0.5$	$18.4 \pm 0.5$	

<sup>a</sup> See [reaction 2,  \$^{19}\text{Ne}\$ , in \(1978AJ03\)](#) for references.

<sup>b</sup>  $(2J + 1)\Gamma_{3\text{He}}\Gamma_\gamma = 30 \pm 17, 89 \pm 44, 18 \pm 4$  and  $17000 \pm 5300 \text{ keV}^2$  for  $^{19}\text{Ne}^*(13.8, 14.9, 16.2, 18.4)$  ([1983WA05](#)).