

Table 20.19 from (1972AJ02): Resonances in  $^{16}\text{O}(\alpha, \gamma)^{20}\text{Ne}$  <sup>a</sup>

$E_\alpha$ (MeV $\pm$ keV)	$\Gamma_{\text{c.m.}}$ (keV)	$\omega\gamma$ <sup>a</sup> (eV)	$E_x$ (MeV)	$J^\pi; T$	Refs.
1.116 $\pm$ 4	$2.6 \times 10^{-6}$ <sup>b</sup>	$(1.7 \pm 0.3) \times 10^{-3}$	5.623	$3^-; 0$	(1965VA14, 1971TO06, 1971TO1C)
1.319 $\pm$ 3	$> 1.3 \times 10^{-2}$ <sup>b</sup>	$(14 \pm 3) \times 10^{-3}$	5.785	$1^-; 0$	(1965VA14, 1971TO06, 1971TO1C)
2.490 $\pm$ 8	$15 \pm 7$ <sup>b</sup>	$(38 \pm 10) \times 10^{-3}$	6.722	$0^+; 0$	(1965VA14, 1971TO06, 1971TO1C)
3.09			7.20	$0^+; 0$	(1969GR03)
4.647 $\pm$ 3			8.447	$5^-; 0$	(1971RO33)
5.06	$< 3$	$1.35 \pm 0.15$	$8.775 \pm 0.0032$	$6^+; 0$	(1967LI07, 1971DI08, 1971RO13)
5.374 $\pm$ 9	$\lesssim 3$	$3.4 \pm 0.4$	9.028	$4^+; 0$	(1964PE05)
5.94 $\pm$ 30	$29 \pm 15$	$1.3 \pm 0.5$	9.48	$2^+; 0$	(1964PE05)
6.61 $\pm$ 30	$155 \pm 30$	$8 \pm 3$	10.02	$(4^+); 0$	(1964PE05)
6.930 $\pm$ 10	$\leq 2$	$28 \pm 3$	10.272	$2^+; 1$	(1964PE05)
7.94 $\pm$ 20	$\leq 3$	$46 \pm 5$	11.08	$(4^+; 1)$	(1964PE05)
8.17 $\pm$ 30	$\leq 4$	$0.9 \pm 0.4$	11.26	$(1^- \text{ or } 2^+)$	(1964PE05)
8.54 $\pm$ 40		$0.5 \pm 0.3$	11.56	$\leq 4$	(1964PE05)
<sup>c</sup>		$0.104 \pm 0.035$	11.948	$8^+; 0$	(1972AL05)
9.40 $\pm$ 40	$40 \pm 16$	$7 \pm 3$	12.25	$\leq 4$	(1964PE05)

<sup>a</sup> See also Table 20.17.

<sup>b</sup> This is also  $\Gamma_\alpha$ .

<sup>c</sup>  $E(^{16}\text{O}) \approx 36.05$  MeV.