

Table 20.7 from (1959AJ76): Resonances in $^{16}\text{O}(\alpha, \alpha)^{16}\text{O}$

E_α (MeV)	$\Gamma_{\text{c.m.}}$ (keV)	θ^2 (%)	J^π	$^{20}\text{Ne}^*$ (MeV)	Reference
2.490	19	22	0^+	6.745	(1953CA44)
3.045	8	36	3^-	7.189	(1953CA44)
3.090	4	1.1	0^+	7.225	(1953CA44)
3.380	8	4.7	2^+	7.457	(1953CA44)
3.885	2	0.6	2^+	7.861	(1953CA44)
≈ 4.8	≈ 1300	≈ 70	0^+	≈ 8.6	(1958MC61) ^a
5.01	4	0.23	1^-	8.76	(1958MC61) ^a
≈ 5.1	≈ 1200	≈ 95	2^+	≈ 8.8	(1958MC61) ^a
5.11	≤ 4		(5^-)	8.84	(1958MC61) ^a
5.19	20	1.0	1^-	8.91	(1958MC61) ^a
5.44	8	3.9	4^+	9.11	(1958MC61) ^a
5.6			(1^-)	9.2	(1940FE01)
6.7			(1^-)	10.1	(1940FE01)

^a Preliminary results.