

Table 20.31 from (1978AJ03):
Resonances for ground-state α -particles (α_0) in $^{19}\text{F}(p, \alpha_0)^{16}\text{O}$

E_p (keV)	Γ_{lab} (keV)	θ_{α}^2 ^a (%)	J^{π}	$^{20}\text{Ne}^*$ (MeV)
400 ^b	100		1^-	13.225
400 ^b	100		0^+	13.225
650 ± 20 ^b	200		1^-	13.462
710 ^{a,b}	35	0.6	(1^-)	13.519
733	66	1.0	2^+	13.541
778	≈ 10	0.02	2^+	13.583
843	23	0.16 ^j	(2^+) ^g	13.645
≈ 860	120	2.1	1^-	13.66
≈ 930	≈ 180	2.9	0^+	13.73
≈ 1080	≈ 200	3.4	1^-	13.87
1115	50	0.55	2^+	13.904
1160	≈ 70	1.1	0^+	13.946
1235 ^{a,c}	≈ 70	1.2	1^-	14.017
≈ 1250 ^a	≈ 150	2.7	2^+	14.03
1358 ^{a,c,d}	54	0.49	2^+	14.134
1640 ^c	< 115			14.402
1709 ^{c,d}	140		0^+	14.468
1853 ^{c,d}	132		1^-	14.604
2110 ^{c,d,e}	75		$(2^+, 4^+)$	14.85
2310 ^{c,d,e}	90		(2^+)	15.04
2550 ^e	300		(1^-)	15.27
2390 ^{c,d,h}	300		(0^+)	15.30
2680 ^{c,h}	80			15.39
2730 ^e	60			15.44
2820 ^e	160			15.52
2940 ^h				(15.64)
3120 ^h	170			(15.81)
3340	105			16.02
3680	(100)			16.34
3860				16.51

Table 20.31 from (1978AJ03):
Resonances for ground-state α -particles (α_0) in $^{19}\text{F}(\text{p}, \alpha_0)^{16}\text{O}$ (continued)

E_p (keV)	Γ_{lab} (keV)	θ_{α}^2 ^a (%)	J^{π}	$^{20}\text{Ne}^*$ (MeV)
3980	135		$0^+; T = 2$	16.62
(4090) ^k				16.73
4130	100			16.77
4360	100			16.98
4460	95			17.08
4690	65			17.30
4900	90			17.50
4990	40			17.58
5879 ± 7 ^f	10 ± 3		$2^+; T = 2$	18.427

^a (1958IS10, 1958IS11).

^b (1959BR67).

^c (1958RA15).

^d (1957CL42).

^e (1964BR12).

^f (1972KU24): $\Gamma_{\alpha_0} \approx 0.3$ keV.

^g $J = 0$ from $^{19}\text{F}(\text{p}, \text{p})^{19}\text{F}$; possibly $T = 1$ (1955BA94, 1955BA1C).

^h See, however, (1964BR12).

ⁱ (1967KU06).

^j $\Gamma_{\alpha_0} \approx 0.06$ keV (1974CA22).

^k See (1972AJ02): not published.