Table 20.23 from (1987AJ02):

Resonances for ground-state α-particles (α_0) in ^{19}F(p, α_0) [a]

$E_{\rm p}$ (keV)	$\Gamma_{\rm lab}$ (keV)	θ^2_α (%) [a]	J^π	^{20}Ne* (MeV)
400	100		1^-	13.228
400	100		0^+	13.228
650 ± 20	200		1^-	13.465
710	35	0.6	(1^-)	13.522
733	66	1.0	2^+	13.544
777 ± 2	9 ± 1	0.02	2^+	13.586
842 ± 2	18 ± 1	0.16 [b]	(2^+) [c]	13.648
≈ 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^+	13.907
1160	≈ 70	1.1	0^+	13.950
1235	≈ 70	1.2	1^-	14.021
≈ 1250	≈ 150	2.7	2^+	14.03
1350 ± 3	36 ± 1		2^+	14.130
1652 ± 5	90 ± 5		1^-	14.417
1713 ± 6	72 ± 2		0^+	14.475
1842 ± 7	122 ± 5		1^-	14.597
1901 ± 10	25 [d]		0^+	14.653
2110	75		$(2^+, 4^+)$	14.85
2310	90		(2^+)	15.04
2550	300		(1^-)	15.27
2590	300		(0^+)	15.31
2680	80			15.39
2730	60			15.44
2820	160			15.53
2940				(15.64)
3120	170			(15.81)
3340	105			16.02
3680	(100)			16.34
3860				16.51

Table 20.23 from (1987AJ02):

Resonances for ground-state α-particles (α_0) in ^{19}F(p, α_0) [a] (continued)

E_p (keV)	Γ_{lab} (keV)	θ^2_α (%) [a]	J^π	^{20}Ne* (MeV)
3980	135			16.63
4130	100			16.77
4360	100			16.99
4460	95			17.08
4690	65			17.30
4900	90			17.50
4990	40			17.59
5879 ± 7	10 ± 3	[d]	$2^+; T = 2$	18.430

[a] For earlier references and additional comments see Tables 20.31 in (1978AJ03) and 20.28 in (1983AJ01). See also (1985OU01, 1986OU01).

[b] $\Gamma_{\alpha_0} \approx 0.06$ keV.

[c] $J = 0$ from ^{19}F(p, p); possibly $T = 0$.

[d] $\Gamma_{\alpha_0} \approx 0.3$ keV.