Tab;e 20.21 from (1987AJ02): Levels of ^{20}Ne from ^{19}F(p, p_0) [a]

E_p (keV)	Γ_{lab} (keV)	l	$J^\pi; T$	Γ_p/Γ	θ_p^2 (%)	^{20}Ne* (MeV)
340	2.9	0	1^+	0.016	3.8	13.171
483			1^+			13.307
598	37	1	2^-	0.0012	0.38	13.416
669	7.5	0	1^+	0.98	9.6	13.483
843	23	0	0^+	0.996	10.8	13.649
873	5.2	1	2^- [b]	0.21	1.5	13.677
935	8.0	0	1^+	0.17	0.44	13.736
1346	4.5	1	2^- [b]	0.067	0.07	14.126
1372	15	1	2^- [b]	0.17	0.52	14.151
1422	14.6	0	1^+	0.85	0.92	14.198
1710 [c]	90	0	0^+	0.8		14.472
1896 [c]	25	0	0^+	0.3		14.648
1943 [c]	40	0	(1^+)	0.5		14.693
2030 [c]	70	1	(1^-)	0.75		14.776
2.763 [c]		2				15.472
2.970 [c]		2				15.668
4094 ± 3	2.1 ± 0.5	0	$0^+; 2$	0.062 ± 0.004		16.735
5879 ± 7 [d]	10 ± 3	2	$2^+; 2$	≈ 0.2		18.430

[a] For references see Table 20.27 in (1978AJ03). For θ^2 see Table 20.28 in (1978AJ03).

[b] 1^- not excluded by elastic scattering alone.

[c] (1985OU01, 1986OU01; R-matrix analysis). Weak resonances at $E_p = 1.75$ and 1.78 MeV are also suggested.

[d] Resonance also observed in p_1, p_3, p_4 and p_5 yields.