

Table 20.27 from (1978AJ03): Levels of ^{20}Ne from $^{19}\text{F}(p, p_0)^{19}\text{F}$ (1955BA1C)

E_p (keV)	Γ_{lab} (keV)	l	$J^\pi; T$	Γ_p/Γ	θ_p^2 (%)	$^{20}\text{Ne}^*$ (MeV)
340	2.9	0	1^+	0.016	3.8	13.168
483 ^b			1^+			13.303
598	37	1	2^-	0.0012	0.38	13.413
669	7.5	0	1^+	0.98	9.6	13.480
843	23	0	0^+	0.996	10.8	13.645
873	5.2	1	2^- ^a	0.21	1.5	13.674
935	8.0	0	1^+	0.17	0.44	13.733
1346	4.5	1	2^- ^a	0.067	0.07	14.123
1372	15	1	2^- ^a	0.17	0.52	14.148
1422	14.6	0	1^+	0.85	0.92	14.195
1694 ^c						14.453
1940 ^c		(0)	($0^+, 1^+$)			14.687
2030 ^c						14.772
4094 ± 3 ^d	2.1 ± 0.5	0	$0^+; 2$	0.062 ± 0.004		16.732
5879 ± 7 ^e	10 ± 3	2	$2^+; 2$	≈ 0.2		18.427

^a 1^- not excluded by elastic scattering alone.

^b (1963BE19).

^c (1956DE33).

^d (1967BL19, 1967KU06).

^e (1972KU24). Resonance also observed in p_1, p_3, p_4 and p_5 yields.