

Table 20.26 from (1983AJ01): Resonances in $^{19}\text{F}(p, p')^{19}\text{F}^*$ ^a

E_p (keV)	J^π	Γ_{lab} (keV)	Γ_{p_1} (eV)	Γ_{p_2} (eV)	$\theta_{p_1}^2$ (%)	$\theta_{p_2}^2$ (%)	E_x in ^{20}Ne (MeV)
340	1 ⁺	2.9	< 0.5	< 0.1	< 15		13.168
483	1 ⁺	2.2	< 1.3	< 1.2			13.303
598	2 ⁻	37	< 100	< 60	< 28	< 145	13.413
669	1 ⁺	7.5	46	< 0.5	0.6	< 0.4	13.480
720		≈ 30	< 10000	< 10000			13.528
780		≈ 10	< 400	≈ 9000			13.585
831		8.3	< 6	≈ 2300			13.634
845	0 ⁺	23	≈ 50	< 10	≈ 0.14	< 0.92	13.647
873	2 ⁻	5.2	< 2	570	< 0.07	2.7	13.674
900		4.8	< 30	≈ 2200			13.699
935	1 ⁺	8.0	3000	< 20	5.0	< 0.8	13.733
1092 ^b	2 ⁺	0.8	173	592			13.882
1137		3.7	< 40	≈ 2100			13.924
≈ 1250		≈ 80	≈ 70000	< 4000			14.03
1290		19	< 600	≈ 900			14.070
1346	2 ⁻	4.5	300	600	0.92	0.24	14.123
1372	2 ⁻	15	700	1400	1.93	0.56	14.148
1422	1 ⁺	14.6 ± 1	2200	≤ 35	0.56	≤ 0.11	14.195
1610		≈ 5					14.374
1660							14.421
1700							14.459
5879 ^c	2 ⁺ ; 2		r				18.427

r = resonant.

^a For references see [Table 20.29 in \(1978AJ03\)](#).

^b (1979SU13): $\Gamma_{p_0} = 29$ eV.

^c Resonance also observed in p_3 , p_4 and p_5 yields.