

Table 20.26 from (1998TI06): Resonances in $^{19}\text{F}(p, p')^{19}\text{F}^*$ ^a

E_p (keV)	$J^\pi; T$	Γ_{cm} (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 ⁺	2.8	< 0.5	< 0.1	< 15		13.171
483	1 ⁺	2.1	< 1.3	< 1.2			13.307
598	2 ⁻	35	< 100	< 60	< 28	< 145	13.416
669	1 ⁺	7.1	46	< 0.5	0.6	< 0.4	13.483
720		≈ 29	< 10000	< 10000			13.532
780		≈ 9.5	< 400	≈ 9000			13.589
831		7.9	< 6	≈ 2300			13.637
845	0 ⁺	22	≈ 50	< 10	≈ 0.14	< 0.92	13.650
873	2 ⁻	4.9	< 2	570	< 0.07	2.7	13.677
900		4.6	< 30	≈ 2200			13.703
935	1 ⁺	7.6	3000	< 20	5.0	< 0.8	13.736
1092 ^b	2 ⁺	0.8	173	592			13.885
1137		3.5	< 40	≈ 2100			13.928
≈ 1250		≈ 76	≈ 70000	< 4000			14.03
1290		18	< 600	≈ 900			14.073
1346	2 ⁻	4.3	300	600	0.92	0.24	14.126
1372	2 ⁻	14	700	1400	1.93	0.56	14.151
1422	1 ⁺	13.9 ± 1	2200	≤ 35	0.56	≤ 0.11	14.198
1610		≈ 5					14.377
1660							14.424
1700							14.462
2763 ^c							15.472
2970 ^c							15.668
5879 ^d	2 ⁺ ; 2		resonant				18.430

^a For references see Tables 20.29 in (1978AJ03) and 20.26 in (1983AJ01).

^b $\Gamma_{p_0} = 29$ eV.

^c Reported in $p_{1 \rightarrow 4}$ yield (1986OU01).

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