

Table 20.10 from (1959AJ76): Resonances in  $^{19}\text{F}(p, p')^{19}\text{F}^*$  (1955BA94)

$E_p$ (keV)	$J^\pi$	$\Gamma_{\text{lab}}$ (keV)	$\Gamma_{p_1}$ (eV)	$\Gamma_{p_2}$ (eV)	$\theta_{p_1}^2$ <sup>a</sup> (%)	$\theta_{p_2}^2$ <sup>a</sup> (%)	$E_x$ in $^{20}\text{Ne}$ (MeV)
340	1 <sup>+</sup>	2.9	< 0.5	< 0.1	< 15		13.196
483		2.2	< 1.5	< 1.5			13.332
598	2 <sup>-</sup>	37	< 500	< 500	< 28	< 145	13.441
669	1 <sup>+</sup>	7.5	46	< 0.5	0.6	< 0.4	13.509
720		$\approx 30$	< 10000	< 10000			13.557
780 <sup>b</sup>		$\approx 10$	< 400	$\approx 9000$			13.614
831		8.3	< 6	$\approx 2300$			13.662
845	0 <sup>+</sup>	23	$\approx 50$	< 10	$\approx 0.14$	< 0.92	13.676
873	2 <sup>-</sup>	5.2	< 2	570	< 0.07	2.7	13.702
900		4.8	< 30	$\approx 2200$			13.728
935	1 <sup>+</sup>	8.0	3000	< 20	5.0	< 0.8	13.761
1092		< 1.2					13.910
1137 <sup>c</sup>		3.7	< 40	$\approx 2100$			13.953
$\approx 1250$		$\approx 80$	$\approx 70000$	< 4000			14.061
1290		19	< 600	$\approx 900$			14.099
1346	2 <sup>-</sup>	4.5	300	600	0.92	0.24	14.152
1372	2 <sup>-</sup>	15	700	1400	1.93	0.56	14.176
1422	1 <sup>+</sup>	$14.6 \pm 1$	2200	$\leq 35$	0.56	$\leq 0.11$	14.224
1610		$\approx 5$					14.403
1660							14.450
1700							14.488

<sup>a</sup> (1955BA1C).

<sup>b</sup> (1955HU1A) find  $E_p = 780.3 \pm 0.8$  keV,  $\Gamma = 7.6 \pm 1.0$  keV but assignment to this reaction is uncertain.

<sup>c</sup> (1955HU1A) find  $1123 \pm 2.0$  keV,  $\Gamma = 22 \pm 5$  keV, but assignment is uncertain.