

Table 20.9 from (1959AJ76):  
Levels of  $^{20}\text{Ne}$  from  $^{19}\text{F}(p, p)^{19}\text{F}$  (1955BA1C)

$E_p$ (keV)	$\Gamma_{\text{lab}}$ (keV)	$l$	$J^\pi$	$\Gamma_p/\Gamma$	$\theta_p^2$ (%)	$^{20}\text{Ne}^*$ (MeV)
340	2.9	0	$1^+$ <sup>b</sup>	0.016	3.8	13.196
598	37	1	$2^-$ <sup>b</sup>	0.0012	0.38	13.441
669	7.5	0	$1^+$	0.98	9.6	13.509
843	23	0	$0^+$	0.996	10.8	13.674
873	5.2	1	$2^-$ <sup>a</sup>	0.21	1.5	13.702
935	8.0	0	$1^+$	0.17	0.44	13.761
1346	4.5	1	$2^-$ <sup>a</sup>	0.067	0.07	14.152
1372	15	1	$2^-$ <sup>a</sup>	0.17	0.52	14.176
1422	14.6	0	$1^+$	0.85	0.92	14.224
1694 <sup>c</sup>						14.482
1940 <sup>c</sup>		(0)	( $0^+$ , $1^+$ )			14.716
2030 <sup>c</sup>						14.802

<sup>a</sup>  $1^-$  not excluded by elastic scattering alone.

<sup>b</sup> not determined by (p, p): see  $^{19}\text{F}(p, \alpha)^{16}\text{O}$ .

<sup>c</sup> (1956DE33).