

Table 20.32 from (1978AJ03):  
Nuclear pair resonances ( $\alpha_\pi$ ) in  $^{19}\text{F}(p, \alpha_\pi)^{16}\text{O}$

$E_p$ (keV)	$\Gamma_{\text{lab}}$ (keV)	$\sigma^c$ (mb)	$\theta_\alpha^2$ (%)	$J^\pi$	$^{20}\text{Ne}^*$ (MeV)
710 <sup>a</sup>	35	$\approx 0.2$	2	$1^-$	13.519
780	$\approx 10$	$\approx 0.2$	0.15	$2^+$	13.585
842	23	3.4	0.27	$2^+$ <sup>d</sup>	13.644
1115	50	1.5	3.6	$2^+$	13.904
1236 <sup>a,b</sup>	$\approx 70$	3	1.0	$1^-$	14.018
1367 <sup>a,b</sup>	30	6.0	0.29	$2^+$	14.143
1630 <sup>b</sup>	60				14.39
1720	95	$\approx 18$			14.48
1880	170				14.63
2170	95				14.91
2330	$\approx 100$				15.06
2600	100				15.31
2680	100				15.39
2820	125				15.52
3120	145				15.81
3340	100				16.02
(3500)	(80)				(16.17)
(3590)	(115)				(16.25)
3960	200				16.60
4360	95				16.98
4690	$< 150$				17.30
4900	115				17.50
4990	40				17.58
5170	220				17.75

<sup>a</sup> See (1972AJ02).

<sup>b</sup> (1958RA15).

<sup>c</sup> (1958IS11).

<sup>d</sup> See footnote <sup>g</sup> in Table 20.31.