

Table 20.28 from (1998TI06): Nuclear pair resonances ( $\alpha_\pi$ ) in  $^{19}\text{F}(\text{p}, \alpha_\pi)$  <sup>a</sup>

$E_p$ (keV)	$\Gamma_{\text{cm}}$ (keV)	$\sigma$ (mb)	$\theta_\alpha^2$ (%)	$J^\pi$	$^{20}\text{Ne}^*$ (MeV)
710	33	$\approx 0.2$	2	$1^-$	13.522
780	$\approx 9.5$	$\approx 0.2$	0.15	$2^+$	13.589
842	22	3.4	0.27	$2^+$ <sup>b</sup>	13.648
1115	48	1.5	3.6	$2^+$	13.907
1236	$\approx 67$	3	1.0	$1^-$	14.022
1367	29	6.0	0.29	$2^+$	14.146
1640	57			$1^-$	14.41
1720	90	$\approx 18$		$0^+$	14.48
1850	162			$1^-$	14.60
1896	24			$0^+$	14.65
2080 <sup>c</sup>	57	12.1		$(2^+)$	14.82
2170 <sup>c</sup>	67	12.2		$(0^+)$	14.91
2330 <sup>c</sup>	67	17.0		$(2^+)$	15.06
2600	95				15.32
2680	95				15.39
2820	119				15.53
3120	138				15.81
3340	95				16.02
(3500)	(76)				(16.17)
(3590)	(109)				(16.26)
3960	190				16.61
4360	90				16.99
4690	$< 143$				17.30
4900	109				17.50
4990	38				17.59
5170	209				17.76

<sup>a</sup> For references see Tables 20.32 in (1978AJ03) and 20.29 in (1983AJ01). See also (1985OU01, 1986OU01).

<sup>b</sup> See footnote <sup>c</sup> in Table 20.27.

<sup>c</sup> (1980CU09): see also for partial widths.