

Table 20.29 from (1983AJ01):
Nuclear pair resonances (α_π) in $^{19}\text{F}(\text{p}, \alpha_\pi)$ ^a

E_p (keV)	Γ_{lab} (keV)	σ (mb)	θ_α^2 (%)	J^π	$^{20}\text{Ne}^*$ (MeV)
710	35	≈ 0.2	2	1^-	13.519
780	≈ 10	≈ 0.2	0.15	2^+	13.585
842	23	3.4	0.27	2^+ ^d	13.644
1115	50	1.5	3.6	2^+	13.904
1236	≈ 70	3	1.0	1^-	14.018
1367	30	6.0	0.29	2^+	14.143
1630 ^b	60				14.39
1720 ^b	95	≈ 18			14.48
1880 ^b	170				14.63
2080 ^c	60	12.1		(2^+)	14.82
2170 ^c	70	12.2		(0^+)	14.91
2330 ^c	70	17.0		(2^+)	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

^a For references see [Table 20.32 in \(1978AJ03\)](#).

^b See also [\(1978DE1D\)](#).

^c [\(1980CU09\)](#): see also for partial widths.

^d See footnote ^d in [Table 20.28](#).