

Table 20.12 from (1959AJ76):
Nuclear pair resonances (α_π) in $^{19}\text{F}(\text{p}, \alpha_\pi)^{16}\text{O}$

E_p (keV)	Γ (keV)	σ^c (mb)	θ_α^2 (%)	J^π	$^{20}\text{Ne}^*$ (MeV)
710 ^a	35	≈ 0.2	2	1^-	13.548
780	≈ 10	≈ 0.2	0.15	2^+	13.614
842	23	3.4	0.27	2^+	13.673
1115	50	1.5	3.6	2^+	13.932
1236 ^{a,b}	≈ 70	3	1.0	1^-	14.047
1367 ^{a,b}	30	6.0	0.29	2^+	14.172
1630 ^b	60				14.42
1720	95	≈ 18			14.51
1880	170				14.66
2170	95				14.94
2330	≈ 100				15.09
2600	100				15.34
2680	100				15.42
2820	125				15.55
3120	145				15.84
3340	100				16.05
(3500)	(80)				(16.20)
(3590)	(115)				(16.28)
3960	200				16.64
4360	95				17.02
4690	< 150				17.33
4900	115				17.53
4990	40				17.61
5170	220				17.79

^a (1950CH53, 1951PH1A, 1954DE36, 1958IS11).

^b (1958RA15).

^c (1958IS11): resonant cross sections derived from analysis; see also (1950CH53).