

Table 20.28 from (1972AJ02):
Nuclear pair resonances (α_π) in $^{19}\text{F}(p, \alpha_\pi)^{16}\text{O}$

E_p (keV)	Γ_{lab} (keV)	σ^c (mb)	θ_α^2 (%)	J^π	$^{20}\text{Ne}^*$ (MeV)
710 ^a	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^+	13.903
1236 ^{a,b}	≈ 70	3	1.0	1^-	14.018
1367 ^{a,b}	30	6.0	0.29	2^+	14.143
1630 ^b	60				14.39
1720	95	≈ 18			14.48
1880	170				14.63
2170	95				14.91
2330	≈ 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				16.61
4360	95				16.98
4690	< 150				17.30
4900	115				17.50
4990	40				17.58
5170	220				17.75

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

^b (1958RA15).

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

^d See footnote ^g in Table 20.27.