

Table 20.23 from (1987AJ02):  
Resonances for ground-state  $\alpha$ -particles ( $\alpha_0$ ) in  $^{19}\text{F}(\text{p}, \alpha_0)$  <sup>a</sup>

$E_p$ (keV)	$\Gamma_{\text{lab}}$ (keV)	$\theta_\alpha^2$ (%) <sup>a</sup>	$J^\pi$	$^{20}\text{Ne}^*$ (MeV)
400	100		$1^-$	13.228
400	100		$0^+$	13.228
$650 \pm 20$	200		$1^-$	13.465
710	35	0.6	$(1^-)$	13.522
733	66	1.0	$2^+$	13.544
$777 \pm 2$	$9 \pm 1$	0.02	$2^+$	13.586
$842 \pm 2$	$18 \pm 1$	$0.16$ <sup>b</sup>	$(2^+)$ <sup>c</sup>	13.648
$\approx 860$	120	2.1	$1^-$	13.66
$\approx 930$	$\approx 180$	2.9	$0^+$	13.73
$\approx 1080$	$\approx 200$	3.4	$1^-$	13.87
1115	50	0.55	$2^+$	13.907
1160	$\approx 70$	1.1	$0^+$	13.950
1235	$\approx 70$	1.2	$1^-$	14.021
$\approx 1250$	$\approx 150$	2.7	$2^+$	14.03
$1350 \pm 3$	$36 \pm 1$		$2^+$	14.130
$1652 \pm 5$	$90 \pm 5$		$1^-$	14.417
$1713 \pm 6$	$72 \pm 2$		$0^+$	14.475
$1842 \pm 7$	$122 \pm 5$		$1^-$	14.597
$1901 \pm 10$	$25$ <sup>d</sup>		$0^+$	14.653
2110	75		$(2^+, 4^+)$	14.85
2310	90		$(2^+)$	15.04
2550	300		$(1^-)$	15.27
2590	300		$(0^+)$	15.31
2680	80			15.39
2730	60			15.44
2820	160			15.53
2940				(15.64)
3120	170			(15.81)
3340	105			16.02
3680	(100)			16.34
3860				16.51

Table 20.23 from (1987AJ02):

Resonances for ground-state  $\alpha$ -particles ( $\alpha_0$ ) in  $^{19}\text{F}(\text{p}, \alpha_0)$  <sup>a</sup> (continued)

$E_p$ (keV)	$\Gamma_{\text{lab}}$ (keV)	$\theta_\alpha^2$ (%) <sup>a</sup>	$J^\pi$	$^{20}\text{Ne}^*$ (MeV)
3980	135			16.63
4130	100			16.77
4360	100			16.99
4460	95			17.08
4690	65			17.30
4900	90			17.50
4990	40			17.59
$5879 \pm 7$	$10 \pm 3$	<sup>d</sup>	$2^+; T = 2$	18.430

<sup>a</sup> For earlier references and additional comments see Tables 20.31 in (1978AJ03) and 20.28 in (1983AJ01). See also (1985OU01, 1986OU01).

<sup>b</sup>  $\Gamma_{\alpha_0} \approx 0.06$  keV.

<sup>c</sup>  $J = 0$  from  $^{19}\text{F}(\text{p}, \text{p})$ ; possibly  $T = 0$ .

<sup>d</sup>  $\Gamma_{\alpha_0} \approx 0.3$  keV.