

Table 20.27 from (1998TI06): Resonances for ground-state  $\alpha$ -particles ( $\alpha_0$ ) in  $^{19}\text{F}(\text{p}, \alpha_0)$  <sup>a</sup>

$E_p$ (keV)	$\Gamma_{\text{cm}}$ (keV)	$\theta_\alpha^2$ (%)	$J^\pi; T$	$^{20}\text{Ne}^*$ (MeV)
400	95		$1^-$	13.228
400	95		$0^+$	13.228
$650 \pm 20$	190		$1^-$	13.465
710	33	0.6	$(1^-)$	13.522
733	63	1.0	$2^+$	13.544
$777 \pm 2$	$9 \pm 1$	0.02	$2^+$	13.586
$842 \pm 2$	$17 \pm 1$	$0.16^b$	$(2^+)^c$	13.648
$\approx 860$	114	2.1	$1^-$	13.66
$\approx 930$	$\approx 171$	2.9	$0^+$	13.73
$\approx 1080$	$\approx 190$	3.4	$1^-$	13.87
1115	48	0.55	$2^+$	13.907
1160	$\approx 67$	1.1	$0^+$	13.950
1235	$\approx 67$	1.2	$1^-$	14.021
$\approx 1250$	$\approx 143$	2.7	$2^+$	14.03
$1350 \pm 3$	$34 \pm 1$		$2^+$	14.130
$1652 \pm 5$	$86 \pm 5$		$1^-$	14.417
$1713 \pm 6$	$68 \pm 2$		$0^+$	14.475
$1842 \pm 7$	$116 \pm 5$		$1^-$	14.597
$1901 \pm 10$	$24^d$		$0^+$	14.653
2110	71		$(2^+, 4^+)$	14.85
2310	86		$(2^+)$	15.04
2550	285		$(1^-)$	15.27
2590	285		$(0^+)$	15.31
2680	76			15.39
2730	57			15.44
2820	152			15.53
2940				(15.64)
3120	162			(15.81)
3340	100			16.02
3680	(95)			16.34

Table 20.27 from (1998TI06): Resonances for ground-state  $\alpha$ -particles ( $\alpha_0$ ) in  $^{19}\text{F}(\text{p}, \alpha_0)$  <sup>a</sup> (continued)

$E_p$ (keV)	$\Gamma_{\text{cm}}$ (keV)	$\theta_{\alpha}^2$ (%)	$J^{\pi}; T$	$^{20}\text{Ne}^*$ (MeV)
3860				16.51
3980	128			16.63
4130	95			16.77
4360	95			16.99
4460	90			17.08
4690	62			17.30
4900	86			17.50
4990	38			17.59
$5879 \pm 7$	$9.5 \pm 2.8$	<sup>d</sup>	$2^+; 2$	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.