

Table 20.25 from (1987AJ02): Resonances for 6 – 7 MeV  $\gamma$ -rays ( $\alpha_2, \alpha_3, \alpha_4$ ) in  $^{19}\text{F}(p, \alpha)$  <sup>a</sup>

$E_p$ (keV)	$\Gamma_{\text{lab}}$ (keV)	$\Gamma_{\alpha_2}$ (eV)	$\Gamma_{\alpha_3}$ (eV)	$\Gamma_{\alpha_4}$ (eV)	$J^\pi$	$^{20}\text{Ne}^*$ (MeV)
$223.99 \pm 0.07$ <sup>b</sup>	$0.99 \pm 0.02$	1000	$< 2.5$	$< 2.5$	$2^-$	13.0607
$340.46 \pm 0.04$ <sup>b,c</sup>	$2.34 \pm 0.04$	2800	16	75	$1^+$	13.1713
$483.91 \pm 0.10$ <sup>b</sup>	$0.90 \pm 0.03$	700	19	190	$1^+$	13.3075
$594 \pm 3$	$25 \pm 3$					13.412
$667.5 \pm 2$	$6.7 \pm 0.3$					13.482
$832.1 \pm 1$						13.638
$872.11 \pm 0.20$ <sup>d</sup>	$4.53 \pm 0.16$	2200	620	180	$2^-$	13.6762
$935.4 \pm 1.3$	$8.1 \pm 0.5$	2900	110	720	$1^+$	13.736
$1087.7 \pm 1$	$0.15 \pm 0.05$					13.881
$1135.6 \pm 1$						13.926
$1280 \pm 1$						14.063
$1347.7 \pm 1$	$4.9 \pm 0.7$	2250	650	1200	$2^-$	14.128
$1371.0 \pm 1$	$12.4 \pm 1.0$	6650	700	300	$2^-$	14.150
$1603 \pm 2$						14.370
$1692 \pm 2$	$35 \pm 3$				$(1, 2)^-$	14.455
$1949 \pm 2.5$	$40 \pm 10$				$(0, 1)^+$	14.699
$2030 \pm 3.0$	$120 \pm 20$					14.776
2320	85					15.05
2510	30					15.23
2630	90					15.35
2800	60					15.51
3020	30					15.72
3190	80					15.88
3490	40					16.16
3920	30					16.57
4000	110					16.65
4090					$0^+; T = 2$	16.73
4290	50					16.92
4490	30					17.11
4570	30					17.19
4710	30					17.32
4780	35					17.39

Table 20.25 from (1987AJ02): Resonances for 6 – 7 MeV  $\gamma$ -rays ( $\alpha_2, \alpha_3, \alpha_4$ ) in  $^{19}\text{F}(\text{p}, \alpha)$  <sup>a</sup> (continued)

$E_p$ (keV)	$\Gamma_{\text{lab}}$ (keV)	$\Gamma_{\alpha_2}$ (eV)	$\Gamma_{\alpha_3}$ (eV)	$\Gamma_{\alpha_4}$ (eV)	$J^\pi$	$^{20}\text{Ne}^*$ (MeV)
4990	20					17.59
5070	35					17.66
5200	70					17.79

<sup>a</sup> See Tables 20.33 in (1978AJ03) and 20.30 in (1983AJ01) for earlier references and for additional comments. See also (1985OU01, 1986OU01).

<sup>b</sup> (1985UH01). See also (1977FR20).

<sup>c</sup> (1982BE29):  $\sigma = 88 \pm 3$  mb,  $\omega\gamma = 22.3 \pm 0.8$  eV.

<sup>d</sup> (1982BE29):  $\sigma = 440 \pm 13$  mb,  $\omega\gamma = 570 \pm 30$  eV.