

Table 20.30 from (1983AJ01):  
Resonances for 6 – 7 MeV  $\gamma$ -rays ( $\alpha_2, \alpha_3, \alpha_4$ ) in  $^{19}\text{F}(\text{p}, \alpha)^{\text{a}}$

$E_{\text{p}}$ (keV)	$\Gamma_{\text{lab}}$ (keV)	$\Gamma_{\alpha_2}$ (eV)	$\Gamma_{\alpha_3}$ (eV)	$\Gamma_{\alpha_4}$ (eV)	$J\pi$	$^{20}\text{Ne}^*$ (MeV)
$226.9 \pm 3.4$	1.0	1000	< 2.5	< 2.5	$2^-$	13.060
$340.46 \pm 0.04$	$2.4 \pm 0.2$	2800	16	75	$1^+$	13.1680
$483.8 \pm 0.3^{\text{b}}$	$0.9 \pm 0.1$	700	19	190	$1^+$	13.3038
$594 \pm 3^{\text{b}}$	$25 \pm 3$					13.409
$667.5 \pm 2^{\text{b}}$	$6.7 \pm 0.3$					13.479
$832.1 \pm 1^{\text{b}}$						13.635
$872.11 \pm 0.20^{\text{b}}$	$4.7 \pm 0.2$	2200	620	180	$2^-^{\text{d}}$	13.6729
$935.4 \pm 1.3^{\text{b}}$	$8.1 \pm 0.5$	2900	110	720	$1^+$	13.733
$1087.7 \pm 1^{\text{b}}$	$0.15 \pm 0.05$					13.878
$1135.6 \pm 1^{\text{b}}$						13.923
$1280 \pm 1^{\text{b}}$						14.060
$1347.7 \pm 1^{\text{b}}$	$4.9 \pm 0.7$	2250	650	1200	$2^-$	14.124
$1371.0 \pm 1^{\text{b}}$	$12.4 \pm 1.0$	6650	700	300	$2^-$	14.147
$1603 \pm 2^{\text{b}}$						14.367
$1692 \pm 2^{\text{b}}$	$35 \pm 3$					14.451
$1949 \pm 2.5^{\text{b}}$	$40 \pm 10$					14.695
$2030 \pm 3.0^{\text{b}}$	$120 \pm 20$					14.722
2320	85					15.05
2510	30					15.23
2630	90					15.34
2800	60					15.50
3020	30					15.71
3190	80					15.87
3490	40					16.16
3920	30					16.57
4000	110					16.64
4090 <sup>c</sup>					$0^+; T = 2$	16.73
4290	50					16.92
4490	30					17.11
4570	30					17.18

Table 20.30 from (1983AJ01):  
 Resonances for 6 – 7 MeV  $\gamma$ -rays ( $\alpha_2, \alpha_3, \alpha_4$ ) in  $^{19}\text{F}(p, \alpha)$  <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)
4710	30					17.32
4780	35					17.38
4990	20					17.58
5070	35					17.66
5200	70					17.78

<sup>a</sup> See [Table 20.33 in \(1978AJ03\)](#) for earlier references and for additional comments.

<sup>b</sup> [\(1980DI03\)](#).

<sup>c</sup> See [\(1972AJ02\)](#).

<sup>d</sup> See, however, footnote <sup>j</sup> in [Table 20.21](#).