

Table 20.29 from (1998TI06): Resonances for 6 – 7 MeV γ -rays (α_2 , α_3 , α_4) in $^{19}\text{F}(\text{p}, \alpha)$ ^a

E_p (keV)	Γ_{cm} (keV)	Γ_{α_2} (eV)	Γ_{α_3} (eV)	Γ_{α_4} (eV)	$J^\pi; T$	$^{20}\text{Ne}^*$ (MeV)
223.99 ± 0.07 ^b	0.94 ± 0.02	1000	< 2.5	< 2.5	2^-	13.0607
340.46 ± 0.04 ^{b, c}	2.22 ± 0.04	2800	16	75	1^+	13.1713
483.91 ± 0.10 ^b	0.86 ± 0.03	700	19	190	1^+	13.3075
594 ± 3	24 ± 3					13.412
667.5 ± 2.0	6.4 ± 0.3					13.482
832.1 ± 1.0						13.638
872.11 ± 0.20 ^d	4.30 ± 0.15	2200	620	180	2^-	13.6762
935.4 ± 1.3	7.7 ± 0.5	2900	110	720	1^+	13.736
1087.7 ± 1.0	0.14 ± 0.05					13.881
1135.6 ± 1.0						13.926
1280 ± 1						14.063
1347.1 ± 1.0	4.7 ± 0.7	2250	650	1200	2^-	14.128
1371.0 ± 1.0	11.8 ± 1.0	6650	700	300	2^-	14.150
1603 ± 2						14.370
1692 ± 2	33 ± 3				$(1, 2)^-$	14.455
1949 ± 3	38 ± 10				$(0, 1)^+$	14.699
2030 ± 3	114 ± 19					14.776
2320	81					15.05
2510	29					15.23
2630	86					15.35
2800	57					15.51
3020	29					15.72
3190	76					15.88
3490	38					16.16
3920	29					16.57
4000	105					16.65
4090					$0^+; 2$	16.73
4290	48					16.92
4490	29					17.11
4570	29					17.19

Table 20.29 from (1998TI06): Resonances for 6 – 7 MeV γ -rays (α_2 , α_3 , α_4) in $^{19}\text{F}(\text{p}, \alpha)$ ^a (continued)

E_p (keV)	Γ_{cm} (keV)	Γ_{α_2} (eV)	Γ_{α_3} (eV)	Γ_{α_4} (eV)	$J^\pi; T$	$^{20}\text{Ne}^*$ (MeV)
4710	29					17.32
4780	33					17.39
4990	19					17.59
5070	33					17.66
5200	67					17.79

^a See Tables 20.33 in (1978AJ03) and 20.30 in (1983AJ01) for earlier references and for additional comments. See also (1985OU01, 1986OU01), and see Tables 2 and 3 in (1993DA23).

^b (1985UH01). See also (1977FR20).

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

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