

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

E_p (keV)	Γ_{lab} (keV)	Γ_{α_2} (eV)	Γ_{α_3} (eV)	Γ_{α_4} (eV)	J^π	$^{20}\text{Ne}^*$ (MeV)
223.99 ± 0.07 ^b	0.99 ± 0.02	1000	< 2.5	< 2.5	2^-	13.0607
340.46 ± 0.04 ^{b,c}	2.34 ± 0.04	2800	16	75	1^+	13.1713
483.91 ± 0.10 ^b	0.90 ± 0.03	700	19	190	1^+	13.3075
594 ± 3	25 ± 3					13.412
667.5 ± 2	6.7 ± 0.3					13.482
832.1 ± 1						13.638
872.11 ± 0.20 ^d	4.53 ± 0.16	2200	620	180	2^-	13.6762
935.4 ± 1.3	8.1 ± 0.5	2900	110	720	1^+	13.736
1087.7 ± 1	0.15 ± 0.05					13.881
1135.6 ± 1						13.926
1280 ± 1						14.063
1347.7 ± 1	4.9 ± 0.7	2250	650	1200	2^-	14.128
1371.0 ± 1	12.4 ± 1.0	6650	700	300	2^-	14.150
1603 ± 2						14.370
1692 ± 2	35 ± 3				$(1, 2)^-$	14.455
1949 ± 2.5	40 ± 10				$(0, 1)^+$	14.699
2030 ± 3.0	120 ± 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

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E_p (keV)	Γ_{lab} (keV)	Γ_{α_2} (eV)	Γ_{α_3} (eV)	Γ_{α_4} (eV)	J^π	$^{20}\text{Ne}^*$ (MeV)
4990	20					17.59
5070	35					17.66
5200	70					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).

^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.