

Table 20.13 from (1959AJ76):
Resonances for 6 – 7 MeV γ -rays ($\alpha_1, \alpha_2, \alpha_3$) in $^{19}\text{F}(p, \alpha)^{16}\text{O}$

E_p (keV)	Γ (keV)	σ^g (mb)	$\Gamma_{\alpha_1}^j$ (eV)	$\Gamma_{\alpha_2}^j$ (eV)	$\Gamma_{\alpha_3}^j$ (eV)	J^π	$^{20}\text{Ne}^*$ (MeV)
224.4 ^d	1.0	> 0.2					13.086
340.5 \pm 0.3 ^a	3.3 \pm 0.2	160	2800	16	75	1 ⁺ ^h	13.196
483.6 ^d	0.9 \pm 0.1	> 32	\approx 1700	\approx 30	\approx 450		13.332
596.8 \pm 1.0 ^b	30.0 \pm 3	7.1	37000	< 100	< 100	(2 ⁻) ⁱ	13.440
671.6 \pm 0.7 ^b	6.0 \pm 0.7	57	110	0.4	25	1 ⁺	13.511
834.8 \pm 0.9 ^b	6.5 \pm 1.0	19	total \approx 5400				13.667
874.0 \pm 1.0 ^c	5.0 \pm 0.3	540	2400	850	300	2 ⁻	13.703
902.3 \pm 0.9 ^b	5.1 \pm 1.0	23	\approx 2500	< 130			13.730
935.1 \pm 0.9 ^b	8.6 \pm 0.5	180	2800	110	780	1 ⁺	13.761
1090 \pm 1.0 ^b	0.7 \pm 0.3	> 13					13.909
(1123 \pm 2.0) ^b	22 \pm 5						(13.94)
1140 \pm 1.0 ^b	2.5 \pm 5	15	total \approx 1600				13.956
1189 \pm 7.0 ^b	110 \pm 20	19					14.003
1283 \pm 1.4 ^b	18.6 \pm 1.0	29	\approx 13000	\approx 1300	\approx 3200	(3 ⁺)	14.092
1348 \pm 1.3 ^{b,e}	5.6 \pm 0.5	89	1800	450	1050	2 ⁻	14.154
1375 \pm 1.4 ^{b,e}	11.0 \pm 1.0	300	9100	840	520	2 ⁻	14.179
(1607 \pm 1.6) ^b	6.0 \pm 1.0						14.380
1694 \pm 1.7 ^{b,f}	35.0 \pm 3.0						14.482
1949 \pm 2.5 ^{b,f}	40 \pm 10						14.725
2030 \pm 3.0 ^{b,f}	120 \pm 20						14.802
2320 ^f	85						15.08
2510	30						15.26
2630	90						15.37
2800	60						15.53
3020	30						15.74
3190	80						15.90
3490	40						16.19
3920	30						16.60
4000	110						16.67

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Resonances for 6 – 7 MeV γ -rays ($\alpha_1, \alpha_2, \alpha_3$) in $^{19}\text{F}(p, \alpha)^{16}\text{O}$ (continued)

E_p (keV)	Γ (keV)	σ^g (mb)	$\Gamma_{\alpha_1}^j$ (eV)	$\Gamma_{\alpha_2}^j$ (eV)	$\Gamma_{\alpha_3}^j$ (eV)	J^π	$^{20}\text{Ne}^*$ (MeV)
4290	50						16.95
4490	30						17.14
4570	30						17.22
4710	30						17.35
4780	35						17.41
4990	20						17.61
5070	35						17.69
5200	70						17.81

^a (1955BU1A, 1956BU27): see also (1949MO1A, 1952HU1C). (1958BO76 find $\Gamma = 2.4 \pm 0.3$ keV).

^b (1955HU1A; assignment to this reaction probable but not certain).

^c Observed values are 872.5 ± 1.8 (1953FA18), 871.3 ± 0.4 (1955BU1A, 1956BU22), 873.5 ± 0.8 (1949HE1A), 872.4 ± 0.4 keV (1958BO76), 874.5 ± 0.9 keV (1955HU1A).

^d (1952HU1C, 1953HU18, 1958BO76).

^e (1955KI28).

^f (1952WI27); these values should be reduced by about 0.2%: see (1955KI28).

^g (1950CH53): see also (1948BO21).

^h (1950AR1A, 1950BA1A, 1950CH1A).

ⁱ (1950CH1A, 1953WI1F).

^j (1955BA94).