

Table 20.12 from (1978AJ03): Resonances in $^{19}\text{F}(n, n)^{19}\text{F}$

E_n (keV)	Γ_{lab} (keV)	J^π	$^{20}\text{F}^*$ (MeV)	Refs.
26.99	0.325 ± 0.020	2^-	6.6268	(1974JO1H, 1974SI27)
48.78	1.67 ± 0.10	1^-	6.6475	(1974JO1H, 1974SI27)
97.50	14.5 ± 0.8	1^-	6.6938	(1974JO1H, 1974SI27)
a				
500	25^b	(1^+)	7.076	(1966CA14)
600	15^b	(2^+)	7.171	(1966CA14)
747	35^b	(1)	7.311	(1966CA14)
794	20	(1)	(7.355)	(1966CA14)
852	11^b	(2^+)	7.410	(1966CA14)
935	60	(2)	7.489	(1958WI36, 1966CA14)
1100	50	(2^+)	7.65	(1958WI36, 1966CA14)
1250	150		7.79	(1958WI36)
1620	220		8.14	(1958WI36)
2000	150		8.50	(1958WI36)
2250	≤ 30		8.74	(1958WI36)
2280	80		8.77	(1958WI36)
2520	150		8.99	(1958WI36)
3250	150		9.69	(1958WI36)
3420	130		9.85	(1958WI36, 1960TS02)
3460 ± 10			(9.886)	(1960TS02)
3505 ± 10			(9.929)	(1960TS02)
3560 ± 10			(9.981)	(1960TS02)
3605 ± 10	200		10.024	(1958WI36, 1960TS02)
3820 ± 10	≈ 200	$0^-, 1$	10.228	(1960TS02)
4085 ± 10	≈ 10		10.480	(1960TS02)
4255 ± 10	≈ 60	1, 2	10.641	(1960TS02)
4430 ± 10	≈ 330	$0^-, 1$	10.807	(1960TS02)
4680 ± 10	≈ 30		11.045	(1960TS02)
4770 ± 10	< 25		11.130	(1960TS02)
4890 ± 10	< 25		11.244	(1960TS02)
(4935)			(11.287)	(1960TS02)

^a See (1976GAYV) for resonances in σ_t derived unpublished work.

^b $\Gamma_\gamma = 3.3 \pm 1.0, 6.3 \pm 1.2, 2.4 \pm 0.8$ and 1.5 ± 0.5 eV for $^{20}\text{F}^*(7.08, 7.17, 7.31, 7.41)$ (1973MU14).