

Table 20.12 from (1998TI06):
Resonances in $^{19}\text{F}(n, n)^{19}\text{F}$ ^a

E_n (keV)	Γ_{cm} (keV)	J^π	$^{20}\text{F}^*$ (MeV)
26.99	0.309 ± 0.019	2^-	6.6269
48.78	1.59 ± 0.10	1^-	6.6476
97.50	13.8 ± 0.8	1^-	6.6939
500	24^b	(1^+)	7.076
600	14^b	(2^+)	7.171
747	33^b	(1)	7.311
794	19	(1)	(7.355)
852	10^b	(2^+)	7.410
935	57	(2)	7.489
1100	48	(2^+)	7.65
1250	143		7.79
1620	209		8.14
2000	143		8.50
2250	≤ 29		8.74
2280	76		8.77
2520	143		8.99
3250	143		9.69
3420	124		9.85
3460 ± 10			(9.886)
3505 ± 10			(9.929)
3560 ± 10			(9.981)
3605 ± 10	190		10.024
3820 ± 10	≈ 190	$0^-, 1$	10.228
4085 ± 10	≈ 9.5		10.480
4255 ± 10	≈ 57	1, 2	10.641
4430 ± 10	≈ 314	$0^-, 1$	10.807
4680 ± 10	≈ 29		11.045
4770 ± 10	< 24		11.130
4890 ± 10	< 24		11.244
(4935)			(11.287)

^a For references see [Table 20.12 in \(1978AJ03\)](#).

^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 $^{20}\text{F}^*(7.08, 7.17, 7.31, 7.41)$.