

Table 19.8 from (1983AJ01): Lifetimes of some ^{19}F states ^a

$^{19}\text{F}^*$ (MeV)	τ_m	Refs.
0.110	0.853 ± 0.010 nsec	mean: see (1972AJ02)
0.197	128.8 ± 1.5 nsec	mean: see (1978AJ03)
1.35	3.7 ± 0.7 psec	(1980AN02)
	4.4 ± 0.6 psec ^A	see (1980AN02)
1.46	140 ± 15 fsec	(1980AN02)
	90 ± 20 fsec ^A	see ^e
1.55	5 ± 3 fsec	(1980AN02)
2.78	370 ± 25 fsec	(1980AN02)
	280 ± 30 fsec ^A	see ^e
3.91 ^b	9 ± 5 fsec	(1977DI18)
4.00 ^b	19 ± 7 fsec	(1980AN02)
4.03	63 ± 19 fsec	(1980AN02)
	67 ± 15 fsec ^A	see (1980AN02)
4.38 ^c	< 11 fsec	(1975LE16)
4.55 ^d	< 50 fsec	(1976RO07)
4.56	17^{+10}_{-8} fsec ^A	(1975LE16)
	< 30 fsec	(1976BH03)
4.65	2.2 ± 0.3 psec	mean: see (1978AJ03)
4.68 ^d	15.4 ± 3.0 fsec	(1972RO01)
5.11 ^d	< 30 fsec	(1976RO07)
5.34	≤ 0.1 fsec	see ^f
5.42	≤ 0.9 fsec	see ^g
5.46	≤ 0.26 fsec	see ^f
5.62	< 1.3 fsec	see ^f

A = adopted.

^a See also Tables 19.10 in (1972AJ02) and in (1978AJ03). I am greatly indebted to Dr. D.W.O. Rogers for his comments and criticisms of the 1978 table.

^b See also (1976BH03).

^c See also (1976RO07).

^d See also (1975LE16).

^e P.M. Endt, private communication; based on reassessment of uncertainties in τ_m measurements.

^f Using the rule $\Gamma > 4\Gamma_\alpha\Gamma_\gamma/\Gamma$ (P.M. Endt, private communication). See also (1980AN02, 1975LE16).

^g From $\omega\gamma$ and Γ_γ/Γ (P.M. Endt, private communication). See also (1980AN02).