

Table 19.20 from (1987AJ02):  
Electromagnetic transition rates from  $^{19}\text{F}(e, e)$  <sup>a</sup>

$E_x$ in $^{19}\text{F}$ (MeV)	$J^\pi$	Mult.	$ M ^2$ <sup>b</sup>
0.110	$\frac{1}{2}^-$	C1	$(5.5 \pm 0.6) \times 10^{-4}$
0.197	$\frac{5}{2}^+$	C2	$62.8 \pm 0.7$
1.46	$\frac{3}{2}^-$	C1	$(9 \pm 2) \times 10^{-4}$
1.55	$\frac{3}{2}^+$	M1	$0.15 \pm 0.09$
3.91	$\frac{3}{2}^+$	M1	$0.43 \pm 0.25$
4.56	$\frac{3}{2}^-$	C1	$(2.8 \pm 2.3) \times 10^{-4}$
5.34	$\frac{1}{2}^+$	M1	$0.34 \pm 0.05$
	$\frac{1}{2}^-$	C1	$(3.8 \pm 0.5) \times 10^{-3}$
5.50	$\frac{3}{2}^+$	M1	0.025
6.09	$\frac{3}{2}^-$	C1	$(4.7 \pm 1.3) \times 10^{-3}$
6.28	$\frac{5}{2}^+$	C2	$17 \pm 6$
6.79	$\frac{3}{2}^-$	C1	$(5.0 \pm 1.3) \times 10^{-3}$
		M2	$87 \pm 42$
7.66	$\frac{3}{2}^+; T = \frac{3}{2}$	M1	$0.26 \pm 0.08$

<sup>a</sup> (1985BR15). See Table 19.20 in (1978AJ03) for the earlier work. P.M. Endt (private communication) adopts  $|M|^2 = 8.9 \pm 0.5$  (C3),  $6.9 \pm 0.5$  (C2) and  $6.1 \pm 2.4$  W.u. (M5) for the ground state transitions of  $^{19}\text{F}^*(1.35, 1.55, 2.78)$ .

<sup>b</sup>  $B(\text{C1})$  in units of  $e^2 \cdot \text{fm}^2$ ,  $B(\text{M1})$  in units of  $\mu_N^2$ ,  $B(\text{C2})$  in units of  $e^2 \cdot \text{fm}^4$  and  $B(\text{M2})$  in units of  $\mu_N^2 \cdot \text{fm}^2$ . These are for transitions *from* the ground state.