

Table 19.22 from (1987AJ02): Radiative decay of ^{19}Ne levels ^a

E_i (MeV) ^b	J_i^π	E_f (MeV)	J_f^π	Branch (%)	τ_m
0.24	$\frac{5}{2}^+$	0	$\frac{1}{2}^+$	100	26.0 ± 0.8 nsec
0.28	$\frac{1}{2}^-$	0	$\frac{1}{2}^+$	(100) ^c	61.4 ± 3.0 psec
1.51	$\frac{5}{2}^-$	0.24	$\frac{5}{2}^+$	12 ± 3	$1.4^{+0.5}_{-0.6}$ psec
		0.28	$\frac{1}{2}^-$	88 ± 3 ^d	
1.54	$\frac{3}{2}^+$	0.24	$\frac{5}{2}^+$	95 ± 3 ^d	28 ± 11 fsec
		0.28	$\frac{1}{2}^-$	5 ± 3	
1.62	$\frac{3}{2}^-$	0	$\frac{1}{2}^+$	20 ± 3 ^d	
		0.24	$\frac{5}{2}^+$	10 ± 3	
2.79	$\frac{9}{2}^+$	0.28	$\frac{1}{2}^-$	70 ± 4	143 ± 31 fsec
		0.24	$\frac{5}{2}^+$	100 ^d	
4.03	$\frac{3}{2}^+$	0	$\frac{1}{2}^+$	80 ± 15	< 50 fsec
		0.28	$\frac{1}{2}^-$	5 ± 5	
4.14	$(\frac{9}{2})^-$	1.54	$\frac{3}{2}^+$	15 ± 5	< 0.3 psec
		1.51	$\frac{5}{2}^-$	100	
4.20	$(\frac{7}{2})^-$	0.24	$\frac{5}{2}^+$	20 ± 5	< 0.35 psec
		1.51	$\frac{5}{2}^-$	80 ± 5	
4.38	$\frac{7}{2}^+$	0.24	$\frac{5}{2}^+$	85 ± 4	< 0.12 psec
		2.79	$\frac{9}{2}^+$	15 ± 4	
4.55	$(\frac{1}{2}, \frac{3}{2})^-$	0	$\frac{1}{2}^+$	35 ± 25	< 80 fsec
		0.28	$\frac{1}{2}^-$	65 ± 25	
4.60	$(\frac{5}{2}^+)$	0.24	$\frac{5}{2}^+$	90 ± 5	< 0.16 psec
		1.54	$\frac{3}{2}^+$	10 ± 5	
4.64	$\frac{13}{2}^+$	2.79	$\frac{9}{2}^+$	100	> 1 psec

^a See Table 19.26 in (1978AJ03) for additional data and for references.

^b $E_x = 238.27 \pm 0.11, 275.09 \pm 0.13, 1507.56 \pm 0.3, 1536.0 \pm 0.4, 1615.6 \pm 0.5$ and 2794.7 ± 0.6 keV from E_γ measurements: see Table 19.25 in (1978AJ03).

^c $B(E1) = (1.06 \pm 0.05) \times 10^{-3}$ W.u.

^d $\Gamma_\gamma = 0.17 \pm 0.08, 24^{+27}_{-8}, 3.7^{+1.8}_{-0.9}$ and $2.0^{+1.3}_{-0.6}$ meV: see Table 19.26 in (1978AJ03).