

Table 19.23 from (1972AJ02): Radiative decays of  $^{19}\text{Ne}$  levels

$E_i$ (MeV)	$J_i^\pi$	$E_f$ (MeV)	$J_f^\pi$	Branch (%)	$\tau_m^a$ and $\Gamma_\gamma$	Refs.
0.24	$\frac{5}{2}^+$	0	$\frac{1}{2}^+$	100	$26.6 \pm 1.2$ nsec	(1967BE14)
0.28	$\frac{1}{2}^-$	0	$\frac{1}{2}^+$	(100) <sup>c</sup>	$25.5 \pm 1.0$ nsec $61_{-20}^{+4}$ psec $61.4 \pm 3.0$ psec	(1969BL02) (1969NI09) (1970BH02)
1.51 <sup>b</sup>	$\frac{5}{2}^-$	0	$\frac{1}{2}^+$	< 3	$\left\{ \begin{array}{l} 4.1_{-1.4}^{+3.5} \text{ psec} \\ \Gamma_\gamma = 0.17 \pm 0.08 \text{ meV} \end{array} \right.$	(1970GI09)
		0.24	$\frac{5}{2}^+$	$12 \pm 3$		(1970GI09)
		0.28	$\frac{1}{2}^-$	$88 \pm 3$		(1970GI09)
1.54 <sup>b</sup>	$\frac{3}{2}^+$	0	$\frac{1}{2}^+$	< 6	$\left\{ \begin{array}{l} 28 \pm 15 \text{ fsec} \\ \Gamma_\gamma = 24_{-8}^{+27} \text{ meV} \end{array} \right.$	(1970GI09)
		0.24	$\frac{5}{2}^+$	$95 \pm 3$		(1970GI09)
		0.28	$\frac{1}{2}^-$	$5 \pm 3$		(1970GI09)
1.62 <sup>b</sup>	$\frac{3}{2}^-$	0	$\frac{1}{2}^+$	$20 \pm 3$	$\left\{ \begin{array}{l} 180 \pm 60 \text{ fsec} \\ \Gamma_\gamma = 3.7_{-0.9}^{+1.8} \text{ meV} \end{array} \right.$	(1970GI09)
		0.24	$\frac{5}{2}^+$	$10 \pm 3$		(1970GI09)
		0.28	$\frac{1}{2}^-$	$70 \pm 4$		(1970GI09)
2.79 <sup>b</sup>	$\frac{9}{2}^+$	0	$\frac{1}{2}^+$	< 10	$\left\{ \begin{array}{l} 330 \pm 130 \text{ fsec} \\ \Gamma_\gamma = 2.0_{-0.6}^{+1.3} \text{ meV} \end{array} \right.$	(1970GI09)
		0.24	$\frac{5}{2}^+$	100		(1970GI09)
		0.28	$\frac{1}{2}^-$	< 10		(1970GI09)
		1.51	$\frac{5}{2}^-$	< 12		(1970GI09)
		1.54	$\frac{3}{2}^+$	< 10		(1970GI09)
		1.62	$\frac{3}{2}^-$	< 10		(1970GI09)
4.15	$(\frac{7}{2}^-)$	1.51	$\frac{5}{2}^-$	principal		(1967OL05)

<sup>a</sup>  $\tau_m$  for this state;  $\Gamma_\gamma$  (total).

<sup>b</sup> See also (1967OL05).

<sup>c</sup>  $B(E1) = (1.06 \pm 0.05) \times 10^{-3}$  W.u. (1970BH02). See also (1969NI09).