

Table 18.4 from (1978AJ03): Lifetime measurements of some  $^{18}\text{O}$  states

$^{18}\text{O}^*$ (MeV)	$\tau_m$ (psec)	Reaction	Refs.
1.98	$3.35 \pm 0.20$	$^{16}\text{O}(t, p)$	(1974MC17)
	$3.10 \pm 0.20$	$^3\text{H}(^{16}\text{O}, p)$	(1977LIZS)
	$2.81 \pm 0.11$	$^3\text{H}(^{16}\text{O}, p)$	(1975HE25, 1977HE12)
	$2.99 \pm 0.12$	$^{18}\text{O}(p, p)$	(1976AS04)
	$3.58 \pm 0.18$	$^{18}\text{O}(\alpha, \alpha)$	(1974BE25)
3.56	$2.9 \pm 0.1$		best
	$46.2 \pm 3$	$^{16}\text{O}(t, p)$	(1974CO01)
	$24.5 \pm 3.3$	$^{16}\text{O}(t, p)$	(1974MC17)
3.63	$24.8 \pm 1.3$	$^{18}\text{O}(\alpha, \alpha)$	(1974BE25)
	$24.8 \pm 1.2$		mean of last two values
	$1.45 \pm 0.25$	$^3\text{H}(^{16}\text{O}, p)$	(1973WA19)
3.92	$1.33 \pm 0.20$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
	$1.38 \pm 0.16$		mean
4.46	$0.024 \pm 0.010$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
5.10	$0.065 \pm 0.015$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
5.26	$0.062 \pm 0.025$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
5.34	$0.12 \pm 0.03$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
5.38	$0.20 \pm 0.04$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
5.53	$< 0.03$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
5.53	$< 0.025$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
6.20	$(3.2 \pm 0.6) \times 10^{-3}$	$^{18}\text{O}(\gamma, \gamma)$	(1974HA15)
6.35	$< 0.035$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
6.40	$0.03 \pm 0.015$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
6.88	$< 0.025$	$^{19}\text{F}(t, \alpha)$	(1973OL02)
7.12	$< 0.025$	$^{19}\text{F}(t, \alpha)$	(1973OL02)

<sup>a</sup> See Table 18.3 in (1972AJ02) for some earlier measurements.