

Table 19.2 from (1972AJ02): Lifetime measurements of some  $^{19}\text{O}$  states

$^{19}\text{O}^*$ (MeV)	$\tau_m$	Reaction	Refs.
0.096 <sup>a</sup>	$1.75 \pm 0.3$ nsec	$^{18}\text{O}(\text{d}, \text{p})$	(1959ZI16)
	$1.89 \pm 0.2$ nsec	$^9\text{Be}(^{18}\text{O}, ^8\text{Be})$	(1969NI09)
	$2.00 \pm 0.07$ nsec	$^{18}\text{O}(\text{d}, \text{p})$	(1965MC10)
1.472 <sup>b</sup>	$1.98 \pm 0.06$ nsec		mean
	$1.80 \pm 0.29$ psec	$^{17}\text{O}(\text{t}, \text{p}), ^{18}\text{O}(\text{d}, \text{p})$	(1971BR02)
	$1.22 \pm 0.36$ psec	$^{18}\text{O}(\text{d}, \text{p})$	(1971MC11)
	$0.90 \pm 0.23$ psec	$^{17}\text{O}(\text{t}, \text{p}), ^{18}\text{O}(\text{d}, \text{p})$	(1971HI06, 1971HIZF)
	$1.27 \pm 0.2$ psec		A
2.37	$1.13 \pm 0.14$ psec		mean of last three values
	$\geq 1$ psec	$^{17}\text{O}(\text{t}, \text{p}), ^{18}\text{O}(\text{d}, \text{p})$	(1971BR02)
	$> 3.5$ psec	$^{17}\text{O}(\text{t}, \text{p}), ^{18}\text{O}(\text{d}, \text{p})$	(1971HI06, 1971HIZF)
2.78	$70 \pm 26$ fsec	$^{17}\text{O}(\text{t}, \text{p}), ^{18}\text{O}(\text{d}, \text{p})$	(1971BR02)
	$117 \pm 26$ fsec	$^{17}\text{O}(\text{t}, \text{p}), ^{18}\text{O}(\text{d}, \text{p})$	(1971HI06, 1971HIZF)
3.07 <sup>c</sup>	$\geq 1$ psec	$^{17}\text{O}(\text{t}, \text{p}), ^{18}\text{O}(\text{d}, \text{p})$	(1971BR02)
3.16 <sup>c</sup>	$\geq 1$ psec	$^{17}\text{O}(\text{t}, \text{p}), ^{18}\text{O}(\text{d}, \text{p})$	(1971BR02)

A: E.K. Warburton, private communication.

<sup>a</sup> See also (1965AL13, 1967WA1C).

<sup>b</sup> See also (1965MC10, 1969NI09).

<sup>c</sup> See also (1971HIZF).