

Table 16.19 from (1971AJ02):  
Lifetime measurements of some  $^{16}\text{O}$  states <sup>c</sup>

$^{16}\text{O}^*$ (MeV)	$\tau_m$	Reaction	Refs.
6.05	$72 \pm 7$ psec	$^{19}\text{F}(\text{p}, \alpha)$	(1954DE36)
6.13	$25 \pm 2$ psec	$^{19}\text{F}(\text{p}, \alpha)$	(1965AL14)
	$12 \pm 6$ psec	$^{19}\text{F}(\text{p}, \alpha)$	(1958KO63)
6.92 <sup>a</sup>	$24 \pm 2$ psec		mean
	$12 \pm 3$ fsec	$^{16}\text{O}(\gamma, \gamma)$	(1957SW17)
	$9 < \tau < 25$ fsec	$^{16}\text{O}(\gamma, \gamma)$	(1958DU06)
7.12 <sup>a</sup>	$6.4^{+1.9}_{-1.6}$ fsec	$^{19}\text{F}(\text{p}, \alpha)$	(1970CO09)
	$8.4 \pm 1.6$ fsec		mean
	$10 \pm 3$ fsec	$^{16}\text{O}(\gamma, \gamma)$	(1957SW17)
8.87 <sup>a</sup>	$4 < \tau < 8$ fsec	$^{16}\text{O}(\gamma, \gamma)$	(1958DU06)
	$7.2 \pm 1.7$ fsec		mean
	$240 \pm 40$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1970BE27)
	$192 \pm 80$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1968HE1K)
	$136^{+46}_{-36}$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1970FI06)
10.95	$150 \pm 30$ fsec	$^{19}\text{F}(\text{p}, \alpha)$	(1970GA09)
	$192 \pm 29$ fsec	$^{19}\text{F}(\text{p}, \alpha)$	(1967PI01)
	$180 \pm 16$ fsec		mean
	$8 \pm 5$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1970BE27)
	$< 48$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1968HE1K)
11.08	$58^{+120}_{-58}$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1970FI06) <sup>b</sup>
	$8 \pm 5$ fsec		“best” value
	$57 \pm 19$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1970BE27)
	$172 \pm 60$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1968HE1K)
	$184^{+360}_{-146}$ fsec	$^{14}\text{N}(^3\text{He}, \text{p})$	(1970FI06)
	$57 \pm 19$ fsec		“best” value

<sup>a</sup> See also (1969NY1A, 1969TH01).

<sup>b</sup> See also (1969FI02).

<sup>c</sup> See also Table 16.12.