

Table 19.1 from (1972AJ02): Energy levels of ^{19}O ^a

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{c.m.}$ (keV)	Decay	Reactions
0	$\frac{5}{2}^+; \frac{3}{2}$	$\tau_{1/2} = 26.91 \pm 0.08$ sec	β^-	1, 3, 8, 11, 12
0.0960 \pm 0.5	$\frac{3}{2}^+$	$\tau_m = 1.98 \pm 0.06$ nsec	γ	2, 3, 8, 12
1.4717 \pm 0.4	$\frac{1}{2}^+$	$\tau_m = 1.13 \pm 0.14$ psec	γ	2, 3, 8, 12
2.3711 \pm 1.0	$(\frac{9}{2})$	$\tau_m \geq 1$ psec	γ	3, 8
2.7787 \pm 0.8	$(\frac{7}{2}^+)$	$\tau_m = 93 \pm 19$ fsec	γ	3, 8
3.0671 \pm 2.6	$(\frac{3}{2}^+, \frac{5}{2}^+, \frac{7}{2}^+)$	$\tau_m \geq 1$ psec	γ	3, 8
3.1545 \pm 2.0	$\frac{5}{2}^+$	$\tau_m \geq 1$ psec	γ	3, 8
3.235 \pm 4	$\frac{1}{2}^+$		γ	8
3.9453 \pm 2.5	$(\frac{1}{2}^-)$		γ	3, 8
4.116 \pm 4	$(\frac{3}{2}, \frac{5}{2})^+$	$\Gamma < 15$ keV		3, 8
4.333 \pm 12		< 15		8
4.400 \pm 9		< 15		3, 8
4.583 \pm 8	$\frac{3}{2}^-$	53 ± 3	γ, n	4, 5, 8
4.707 \pm 12	$\frac{5}{2}^+$	< 15		3, 8
4.998 \pm 12		< 15		3, 8
5.086 \pm 10	$\frac{1}{2}^-$	49 ± 5	n	5
5.149 \pm 7	$\frac{3}{2}$	3.4 ± 1.0	n	3, 5, 8
5.455 \pm 9	$\frac{5}{2}^+$	330 ± 40	n	5, 8
5.502 \pm 12		< 15		3, 8
5.53	$(\frac{1}{2}^-)$	380 ± 100	n	5
5.706 \pm 8	$\frac{3}{2}$	7.8 ± 1.4	n	5, 8
6.13	$\frac{3}{2}^+$	150 ± 40	n	5
6.20	$\frac{1}{2}^-$	140 ± 40	n	5
6.276 \pm 7	$\frac{7}{2}^-$	19.2 ± 2.4	n	5, 8
6.480 \pm 15			(n)	5, 8
6.560 \pm 15				8
6.899 \pm 15				8
6.997 \pm 15				8
7.117 \pm 15				8
7.248 \pm 15				8
11.25 \pm 50		240	n, α	7
11.58 \pm 50		330	n, α	7

^a See also [Table 19.5](#).