

Table 19.1 from (1983AJ01): Energy levels of ^{19}O ^a

E_x (MeV \pm keV)	$J^\pi; T$	τ^b or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
0	$\frac{5}{2}^+; \frac{3}{2}$	$\tau_{1/2} = 26.91 \pm 0.08$ sec	β^-	1, 2, 3, 4, 5, 9, 10, 11, 12
0.0960 ± 0.5	$\frac{3}{2}^+$	$\tau_m = 2.00 \pm 0.07$ nsec $g = -0.48 \pm 0.06$	γ	3, 4, 9, 10, 12
1.4717 ± 0.4	$\frac{1}{2}^+$	$\tau_m = 1.27 \pm 0.17$ psec	γ	3, 4, 9
2.3715 ± 1.0	$\frac{9}{2}^+$	> 3.5 psec	γ	3, 4, 9
2.7790 ± 0.9	$\frac{7}{2}^+$	93 ± 19 fsec	γ	3, 4, 9
3.0674 ± 1.6	$\frac{3}{2}^+$	≥ 1 psec	γ	3, 4, 9
3.1535 ± 1.7	$\frac{5}{2}^+$	$(\geq 1$ psec)	γ	3, 4, 9
3.2316 ± 2.3	$\frac{3}{2}^+$			3, 4, 9
3.9449 ± 1.4 ^c	$\frac{3}{2}^-$		γ	3, 4, 9
4.1093 ± 1.9	$\frac{3}{2}^+$	$\Gamma < 15$ keV		3, 4, 9
4.3281 ± 2.4	$\frac{3}{2}, \frac{5}{2}$	< 15		3, 4, 9
4.4025 ± 2.7	$\frac{3}{2} \rightarrow \frac{7}{2}$	< 15		3, 4, 9
4.5820 ± 4.6	$\frac{3}{2}^-$	52 ± 3	n	3, 4, 6, 9
4.7026 ± 2.7	$\frac{5}{2}^+$	< 15		3, 4, 9
4.9683 ± 5.5	$\frac{5}{2}, \frac{7}{2}$			3
5.0070 ± 4.5	$\frac{3}{2}, \frac{5}{2}$	< 15		3, 4, 9
5.0820 ± 5.4	$\frac{1}{2}^-$	49 ± 5	n	3, 6
5.1484 ± 3.2	$\geq \frac{5}{2}^+$	3.4 ± 1.0	n	3, 4, 6, 9
5.33	$\frac{3}{2}^+$	330	n	6
5.3840 ± 2.8	$(\frac{9}{2} \rightarrow \frac{13}{2})$			3
5.455 ± 9	$\frac{5}{2}^+$	280	n	6
5.5035 ± 3.1 ^c		< 15		3, 4, 9
5.7046 ± 4.3 ^c		7.8 ± 1.4	n	3, 4, 6, 9
6.1196 ± 3.2 ^c				3
6.13	$\frac{3}{2}^+$	190	n	6
6.1916 ± 5.5	$\frac{1}{2}^-$	120	n	3, 6
6.2693 ± 2.6	$\frac{7}{2}^-$	19.2 ± 2.4	n	3, 4, 6, 9
6.4058 ± 3.1 ^c				3
6.4662 ± 4.8	$(\frac{7}{2} \rightarrow \frac{11}{2})$		(n)	3, 6, 9

Table 19.1 from (1983AJ01): Energy levels of ^{19}O ^a (continued)

E_x (MeV \pm keV)	$J^\pi; T$	τ ^b or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
6.583 \pm 6 ^c				3, 9
6.903 \pm 8				3, 9
6.988 \pm 9				3, 9
7.118 \pm 10				3, 9
7.242 \pm 8				3, 9
7.508 \pm 10				3
8.048 \pm 20				3
8.132 \pm 20				3
8.247 \pm 20				3
8.450 \pm 20				3
8.561 \pm 20				3
8.591 \pm 20				3
8.916 \pm 20				3
8.923 \pm 20				3
9.022 \pm 20				3
9.064 \pm 20				3
9.253 \pm 20				3
9.324 \pm 20				3
9.43				3
9.56				3
9.77				3
9.88				3
9.93				3
9.98				3
11.25 \pm 50		240	n, α	6
11.58 \pm 50		330	n, α	6

^a See also [Table 19.2](#).

^b See also [reaction 1](#), and [Table 19.2 in \(1978AJ03\)](#).

^c See footnotes to [Table 19.3](#).