

Table 16.3 from (1959AJ76): Energy Levels of ^{16}O

E_x (MeV \pm keV)	$J^\pi; T$	τ_m or Γ (keV)	Decay	Reactions
0	$0^+; 0$	—	stable	1, 18, 24, 27, 34, 36, 37, 38, 43
6.056 ± 10	$0^+; 0$	$\tau_m = 72 \pm 7$ psec	π	9, 18, 35, 36, 38, 43
6.135 ± 10	$3^-; 0$	$\tau_m = 12 \pm 6$ psec	γ	18, 24, 27, 35, 36, 38, 43
6.923 ± 10	$2^+; 0$	$\tau_m = 12 \pm 3$ fsec	γ	18, 33, 36, 38, 43
7.121 ± 10	$1^-; 0$	$\tau_m = 10 \pm 3$ fsec	γ	18, 24, 27, 33, 36, 38, 43
8.875 ± 10	$2^-; 0$		γ	18, 24, 27, 36, 38, 43
9.58	$1^-; 0$	650	α, γ	1, 6
9.843 ± 12	$2^+; 0$	0.8	α	6, 36, 43
10.363 ± 14	$4^+; 0$	27	α	6, 36, 43
(10.804)				(43)
10.937 ± 10	$0^-; 0$		γ	(18), 24, (43)
11.070 ± 10	$3^+; (0)$		γ	(6), 18, 24, 36, 43
11.25	$0^+; 0$	2500	α	6
11.51 ± 30	$2^+; 0$	80	α	6, 36
11.62	$3^-; 0$	1200	α	6
12.02 ± 30			(γ)	36
(12.29)		40	γ	20
12.43 ± 10	$1^-; 0$	89	α, γ, p	6, 20, 22
12.52 ± 10	2^-	0.8	p, γ, α	20, 22, 36
12.78 ± 10	$0^-; 1$	38	p, γ	20, 21
12.96 ± 10	$2^-; 1$	2 ± 0.2	p, α	21, 22
13.09 ± 10	$1^-; 1$	130 ± 10	p, γ, α	20, 21, 22, 36
13.25 ± 10	$3^-; 1$	21 ± 1	p, α	21, 22
13.65 ± 10	$1^+; 0$	64 ± 3	p, α	21, 22
13.97 ± 10	2^-	22 ± 2	p, α	21, 22
14.93 ± 40	4^+	43 ± 10	p, α	22
15.21 ± 40	$2^-, 3^+$	72 ± 15	p, α	22
15.25 ± 60	2^+	720 ± 100	p, α	22
15.41 ± 50		96 ± 25	p, α	22
15.79		30	p, α	22

Table 16.3 from (1959AJ76): Energy Levels of ^{16}O (continued)

E_x (MeV \pm keV)	$J^\pi; T$	τ_m or Γ (keV)	Decay	Reactions
16.21	1^+	23	p, n	23
16.3	0^-	250	p, n	23
16.44		24	p, α	22
(16.82)			p, α	22
(16.93)			p, α	22
17.0		≈ 200	p, n	23
17.12		41	p, n	23
17.29		84	p, n	23
17.5		≈ 250	p, n	23
17.63		66	p, n	23
17.85		100	p, n	23
17.96		49	p, n	23
18.05		38	p, n	23
22.05		broad	d, n	11
23.05		broad	d, n	11
23.54		300	α	6
24.38		broad	d, n	11
(25.7)			^3He , p, α	7, 8
(26.4)			^3He , p	7