

Table 16.15 from (1977AJ02): Radiative decays in ^{16}O ^a

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	$J_f^\pi; T$	Branch (%)	Γ_{rad} (eV)	Refs.
6.05	$0^+; 0$	0	$0^+; 0$	100	3.55 ± 0.21 ^b	(1975MI08)
6.13	$3^-; 0$	0	$0^+; 0$	100	$(2.60 \pm 0.13) \times 10^{-5}$	(1975MI08)
6.92	$2^+; 0$	0	$0^+; 0$	> 99	0.130 ± 0.009	(1973BE49)
					0.100 ± 0.004	(1975MI08)
		6.05	$0^+; 0$	$(2.7 \pm 0.3) \times 10^{-2}$	$(3.0 \pm 0.5) \times 10^{-5}$	mean ^{a,d}
		6.13	$3^-; 0$	$\leq 8 \times 10^{-3}$		(1968WI15)
7.12	$1^-; 0$	0	$0^+; 0$	> 99	$(55 \pm 5) \times 10^{-3}$	best ^a
		6.05	$0^+; 0$	$< 6 \times 10^{-4}$		(1967LO08)
		6.13	$3^-; 0$	$(7.0 \pm 1.4) \times 10^{-2}$		(1968WI15)
8.87	$2^-; 0$	0	$0^+; 0$	7.2 ± 0.8	$(2.4 \pm 0.4) \times 10^{-4}$	(1967PI01, 1968WI15)
		6.05	$0^+; 0$	0.122 ± 0.033	$(2.9 \pm 1.0) \times 10^{-6}$	(1963GO31, 1967PI01)
		6.13	$3^-; 0$	76.0 ± 3.0		(1968WI15)
					$(1.70^{+0.35}_{-0.50}) \times 10^{-3}$ (E2)	(1967PI01)
					$(8.5^{+4.5}_{-2.5}) \times 10^{-4}$ (M1)	(1967PI01)
		6.92	$2^+; 0$	4.2 ± 0.8	$(1.72 \pm 0.25) \times 10^{-4}$	(1967PI01, 1968WI15)
		7.12	$1^-; 0$	12.6 ± 2.0		(1968WI15)
9.63	$1^-; 0$	0	$0^+; 0$	≈ 100	$(23 \pm 3) \times 10^{-3}$	Table 16.12
9.85	$2^+; 0$	0	$0^+; 0$	61 ± 4	$(6.1 \pm 0.5) \times 10^{-3}$	best ^a
					$(5.9 \pm 0.6) \times 10^{-3}$	Table 16.12
		6.05	$0^+; 0$	18 ± 4	$(1.9 \pm 0.4) \times 10^{-3}$	(1967GO08)
		6.92	$2^+; 0$	21 ± 4	$(2.2 \pm 0.4) \times 10^{-3}$	Table 16.12
10.35	$4^+; 0$	0	$0^+; 0$		$(5.6 \pm 2.0) \times 10^{-8}$	(1973BE49)
		6.13	$3^-; 0$		$< 1.0 \times 10^{-3}$	(1963GO31)
		6.92	$2^+; 0$	≈ 100	$(5.8 \pm 0.7) \times 10^{-3}$	Table 16.12
10.95	$0^-; 0$	7.12	$1^-; 0$	> 99	$(0.08 \pm 0.05) \times 10^{-2}$	(1959BR68; Table 16.12)
11.095 ^a	$4^+; 0$	6.13	$3^-; 0$	^a	$(3.1 \pm 1.3) \times 10^{-3}$	Table 16.12
		6.92	$2^+; 0$	^a	$(2.5 \pm 0.6) \times 10^{-3}$	Table 16.12
11.52	$2^+; 0$	0	$0^+; 0$	91.7	0.61 ± 0.02	(1973BE50)
					0.65 ± 0.08	Table 16.12
		6.05	$0^+; 0$	4.2 ± 0.7	^a	
		6.92	$2^+; 0$	4.0 ± 1.0	$(29 \pm 7) \times 10^{-3}$	Table 16.12
		7.12	$1^-; 0$	≤ 0.8		
12.05	$0^+; 0$	0	$0^+; 0$		4.03 ± 0.09 ^b	(1973BE50)
12.44	$1^-; 0$	0	$0^+; 0$	≈ 100	9.5 ± 1.7	(1973BR19)
					12 ± 2	(1974RO37)
		6.05	$0^+; 0$	1.2 ± 0.4 ^a	0.12 ± 0.06	Table 16.12
					0.12 ± 0.04	Table 16.19

Table 16.15 from (1977AJ02): Radiative decays in ^{16}O ^a (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	$J_f^\pi; T$	Branch (%)	Γ_{rad} (eV)	Refs.
12.53	$2^-; 0$	0	$0^+; 0$		$(21 \pm 6) \times 10^{-3}$	(1968ST31)
					$(108 \pm 15) \times 10^{-3}$	(1970KI02)
		6.13	$3^-; 0$	60 ± 6	2.1 ± 0.2	(1968GO07)
		6.92	$2^+; 0$	< 10	≤ 0.34	(1968GO07)
		7.12	$1^-; 0$	15 ± 3	0.5 ± 0.1	(1968GO07)
12.80 ^a	$0^-; 1$	8.87	$2^-; 0$	25 ± 3	0.9 ± 0.1	(1968GO07)
		7.12	$1^-; 0$	≈ 100	2.5 ± 0.2	(1968GO07)
12.97 ^a	$2^-; 1$	0	$0^+; 0$		$(71 \pm 2) \times 10^{-3}$	(1970KI02)
		6.13	$3^-; 0$	63 ± 6	2.3 ± 0.2	(1968GO07)
		7.12	$1^-; 0$	12 ± 3	0.44 ± 0.10	(1968GO07)
		8.87	$2^-; 0$	25 ± 3	0.90 ± 0.10	(1968GO07)
13.09 ^a	$1^-; 1$	0	$0^+; 0$	≈ 100	32 ± 5	(1974RO37)
					44 ± 8	(1973BR19)
		6.05	$0^+; 0$	0.58 ± 0.12		(1968WI15)
		7.12	$1^-; 0$	3.1 ± 0.8	1.4 ± 0.4	(1973BR19)
13.26 ^a _c	$3^-; 1$	6.13	$3^-; 0$	> 85	9.2 ± 1.5	(1968GO07)

^a See Table 16.12 in (1971AJ02) for the earlier work.

^b Monopole matrix element in fm^2 .

^c For the radiative decays of higher states see Tables 16.12, 16.19 and 16.24.

^d Mean for branch. Γ_γ for this state based on $\Gamma_\gamma = 0.11 \pm 0.01$ for $6.92 \rightarrow 0$ transition.