

Table 16.24 from (1977AJ02): Excited states observed in $^{16}\text{O}(e, e')^{16}\text{O}$ ^a

E_x (MeV \pm keV)	$J^\pi; T$	Mult.	Γ (keV)	Γ_{γ_0} (eV)	Refs.
6.05	0^+	E0		3.55 ± 0.21 ^b	(1975MI08)
6.13	3^-	E3		$(2.60 \pm 0.13) \times 10^{-5}$	(1975MI08)
6.92	2^+	E2		0.130 ± 0.009	(1973BE49)
				0.100 ± 0.004	(1975MI08)
7.12	1^-	E1		$(4.6 \pm 2.3) \times 10^{-2}$	(1975MI08) ^c
9.85	2^+	E2		$(8.8 \pm 1.7) \times 10^{-3}$	(1973BE49)
10.35	4^+	E4		$(5.6 \pm 2.0) \times 10^{-8}$	(1973BE49)
11.52	2^+	E2		0.61 ± 0.02	(1973BE50)
12.05	0^+	E0		4.03 ± 0.09 ^b	(1973BE50)
12.53	2^-	M2		0.021 ± 0.006	(1968ST31)
				0.108 ± 0.015	(1970KI02)
12.97	2^-	M2		0.071 ± 0.002	(1970KI02)
13.0	2^+	E2		0.89	(1970KI02) ^d
13.10 \pm 250	$1^-; 1$	E1		$\leq 49 \pm 13$	(1970KI02) ^d
14.00 \pm 50	0^+	E0	170 ± 50	3.3 ± 0.7 ^b	(1969ST06, 1970ST06)
15.15 \pm 150	2^+	E2	500 ± 200	1.0 ± 0.5	(1970ST06)
16.21 \pm 30	1^+	M1	18 ± 3	5.1 ± 0.8	(1970ST06, 1975MI08)
16.46 \pm 70	2^+	E2	35 ± 5	0.5 ± 0.2	(1970ST06, 1975MI08)
16.80 \pm 100	(3^+)		≤ 100	$(1.7 \pm 1.9) \times 10^{-3}$	(1970ST06)
17.14	$1^-; 1$	E1	40 ± 6	62 ± 12	(1970ST06, 1975MI08)
17.60 \pm 100	(2^-)		≤ 100	0.07 ± 0.04	(1970ST06)
18.50 \pm 100	2^+	E2	60 ± 9		(1970ST06, 1974HO20, 1975MI08)
19.00 \pm 100	$1^-; 1$	E1	300 ± 100	41 ± 20	(1965VA09, 1970GO40, 1970ST06)
19.04 \pm 50	$2^-; 1$	M2	400 ± 50	1.5 ± 0.3	(1970GO03, 1970GO40, 1970ST06)
			850 ± 150		(1967DR05, 1968DR01)
19.50 \pm 100	$1^-; 1$	E1	200 ± 70	40 ± 20	(1970GO40, 1970ST06)
20.36 \pm 70	2^-	M2	500 ± 100	2.9 ± 1.0	(1965VA09, 1968DR01, 1969SI10, 1970GO03, 1970GO40, 1970ST06)
20.95 \pm 50	$1^-; 1$	E1	270 ± 70	180 ± 50	(1970GO40, 1970ST06)
21.34 \pm 250	(2^-)	(M2)			(1965DE1C, 1965VA09)
22.3					(1970GO40)
23.0					(1970GO40)
23.7 \pm 250	$(2^-; 1)$				(1965VA09, 1970GO03)
24.2					(1963IS02, 1965VA09, 1970GO03, 1970GO40)
25.5 \pm 250	$1^-; 1$	E1			(1963IS02, 1965VA09)
26.7 \pm 250	1^+	M1			(1965VA09)
44.5	$(1^-; 1)$		2000–3000	5300	(1961IS06, 1962BI19)
49	$(1^-; 1)$		2000–3000	19000	(1961IS06, 1962BI19)

^a See also [Table 16.26 in \(1971AJ02\)](#).

^b Monopole matrix element in fm².

^c See also text and [\(1975MI13\)](#).

^d See also [\(1968ST31\)](#).