

Table 18.21 from (1995TI07): Some states of ^{18}O from $^{18}\text{O}(e, e')$ ^a

E_x (MeV)	Γ (keV)	$J^\pi; T$	Mult.	Transition probability (in $e^2 \cdot \text{fm}^{2\lambda}$)
1.98 ^b		2 ⁺ ; 1	C2	44.8 ± 1.3
3.55 ^b		4 ⁺ ; 1	C4	(9.04 ± 0.90) × 10 ²
3.92 ^b		2 ⁺ ; 1	C2	22.2 ± 1.0
4.46 ^c		1 ⁻		
5.10 ^c		3 ⁻	C3	1301 ± 39
5.26 ^b		2 ⁺ ; 1	C2	28.3 ± 1.5
5.53 ± 0.01 ^e	< 50	2 ⁻ ; 1		
6.20 ^c		1 ⁻		
6.35 ± 0.01 ^e	< 50	(2 ⁻); 1		
6.40 ^c		3 ⁻	C3	40 ± 9
7.12 ^b		4 ⁺ ; 1	C4	(1.31 ± 0.06) × 10 ⁴
7.62 ^c		1 ⁻		
7.77 ± 0.01 ^e	< 50	2 ⁻ ; 1		
7.86 ^c		5 ⁻	C5	(3.54 ± 0.64) × 10 ⁴
8.04 ^c		1 ⁻		
8.13 ^c		5 ⁻	C5	(1.88 ± 0.35) × 10 ⁴
8.21 ^d		2 ⁺ ; (1)	C2	7.3 ± 4.2
8.29 ^c		3 ⁻	C3	≤ 19
8.41 ± 0.01 ^e	< 50	(2 ⁻); 1		
8.52 ± 0.01 ^e	< 50	(4 ⁻); 1		
8.82 ± 0.01 ^e	70 ± 12	(1 ⁺); 1		
8.96 ± 0.01 ^e	43 ± 3	(4 ⁺); 1		
9.36 ± 0.01 ^{d, e}	≤ 20	(2 ⁺); 1		
9.71 ± 0.01 ^e	< 50	(5 ⁻); 1		
10.31 ± 0.02 ^e	< 50	(4 ⁺); 1		
10.43 ± 0.04 ^e	< 50	(2 ⁻); 1		
10.67 ± 0.02 ^e	< 50	(2 ⁻); 1		
10.99 ± 0.02 ^e	< 50	(2 ⁻); 1		
11.52 ± 0.05 ^e	< 50	(2 ⁻); 1		
11.67 ± 0.02 ^e	112 ± 7	(3 ⁻); 1		

Table 18.21 from (1995TI07): Some states of ^{18}O from $^{18}\text{O}(e, e')$ ^a (continued)

E_x (MeV \pm keV)	Γ (keV)	$J^\pi; T$	Mult.	Transition probability (in $e^2 \cdot \text{fm}^{2\lambda}$)
11.90 ± 0.03 ^e	< 50	$(2^-); 1$		
12.09 ± 0.02 ^e	< 50	$(1^-, 2^+); 1$		
12.41 ± 0.02 ^e	143 ± 24	$(3^-); 1$		
12.52 ± 0.02 ^e	< 50			
12.66 ± 0.02 ^e	< 50	$(2^-); 1$		
12.99 ± 0.02 ^e	68 ± 18	$(4^-); 1$		
13.40 ± 0.02 ^e	108 ± 26	$(2^-); 1$		
13.85 ± 0.13 ^e	≈ 200	$(6^-); 1$		
14.17 ± 0.04 ^e	140 ± 50	$(6^-); 1$		
14.45 ± 0.05 ^e	≈ 1070			
15.23 ± 0.04 ^e	≈ 300			
15.95 ± 0.03 ^e	< 50			
16.210 ± 0.01 ^{f, g}		$1^{(-)}$		
16.315 ± 0.01 ^{f, g}		$(3, 2)^-$		
16.399 ± 0.005 ^{f, h}	< 20	$2^-; 2^i$	M2	$(64 \pm 8) \times 10^{-2}$
16.40 ± 0.02 ^e	< 50	$(2^-); 2$		
16.88 ± 0.03 ^e	< 50	$(4^-, 2^-); 1$		
16.948 ± 0.01 ^{f, g}		$(3, 2)^-$		
17.025 ± 0.01 ^{e, f, g, h}	20 ± 6	$(3^-); 2$		
17.398 ± 0.01 ^{f, g}		$(2, 1, 3)^-$		
17.450 ± 0.01 ^{f, g}		$(2, 1, 3)^-$		
17.46 ± 0.03 ^e	≈ 600	$(4^-); 1$		
17.5 ^f	≈ 150			
17.502 ± 0.01 ^{f, g}		$(1, 2, 3)^-$		
17.635 ± 0.01 ^{f, g}				
18.049 ± 0.01 ^{f, g}		d		
18.2 ^f	≈ 150			
18.45 ± 0.02 ^e	75 ± 27	$(3^-); 1$		
18.5 ^f	≈ 4300			

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E_x (MeV \pm keV)	Γ (keV)	$J^\pi; T$	Mult.	Transition probability (in $e^2 \cdot \text{fm}^{2\lambda}$)
18.68 \pm 0.02 ^{e, h}	< 50	(4 ⁻ ; 2)	M1	63 \pm 8 ^h (3.1 \pm 0.4) $\times 10^{-2}$
18.871 \pm 0.005 ^f		1 ⁺ ; 2		
18.927 ^{f, g}		1 (2 ⁺)		
19.027 \pm 0.01 ^{f, g}		(1, 3) ⁻		
19.150 \pm 0.01 ^{f, g}		1 ⁻ (2 ⁺ , 3 ⁻)		
19.22 \pm 0.02 ^e	< 50	(3 ⁻ ; 2)	M4	66 \pm 6
19.7 ^f	\approx 200			
20.2 ^f	\approx 180			
20.36 \pm 0.02 ^{e, h}	< 20	(4 ⁻); 2		
20.86 \pm 0.02 ^e	97 \pm 41			
21.0 ^f	\approx 150		M4	400 \pm 32
21.42 \pm 0.02 ^{e, h}	49 \pm 37	(4 ⁻ ; 2)		
22.40 \pm 0.02 ^{e, f, h}	91 \pm 8 ^e	4 ⁻ ; 2 ^e		
23.10 \pm 0.02 ^e	49 \pm 24			
23.8 ^f	\approx 1300			

^a Additional states have been excited: see [reaction 28 in \(1983AJ01\)](#). For ground state see [reaction 25](#) here.

^b [\(1982NO04\)](#).

^c [\(1991MA14\)](#).

^d [\(1990MA06\)](#).

^e [\(1995SE02\)](#).

^f [\(1983BE36\)](#).

^g Weakly excited.

^h [\(1986MA48\)](#).

ⁱ See [Fig. 5, isobar diagram](#) for missing $T = 2$ strength.