

Table 18.3 from (1983AJ01): Radiative decays in ^{18}O ^a

E_i (MeV)	J_i^π	E_f (MeV)	Branch (%)	Comments
1.98	2^+	0	100	
3.55	4^+	1.98	100	
3.63	0^+	0	0.30 ± 0.06^b	$\Gamma_\pi/\Gamma = (3.0 \pm 0.6) \times 10^{-3}$
		1.98	99.70 ± 0.06^b	
3.92	2^+	0	13.3 ± 1.2^b	
		1.98	86.7 ± 1.2^b	$\delta = 0.12 \pm 0.4^c$
4.46 ^g	1^-	1.98	25.0 ± 1.1^b	$\delta = -(0.09 \pm 0.36)^c$
		3.63	71.6 ± 1.1^b	$\delta = 0$
		3.92	3.4 ± 0.2^b	
5.10	3^-	1.98	75 ± 2^b	$\delta = 0^c$
		3.55	8 ± 2^c	$\delta = (0)$
		3.92	17 ± 2^b	$\delta = (0)$
5.26 ^j	2^+	0	28.1 ± 0.8	$\delta = 0^c$
		1.98	67.1 ± 1.0	$\delta = 0.15 \pm 0.04^c$
		3.55	1.0 ± 0.4	
		3.63	0.8 ± 0.4	
		3.92	< 5	
		4.46	3.0 ± 0.3	
5.34	0^+	0		$\Gamma_\pi/\Gamma \leq 2.3 \times 10^{-3}$
		1.98	60 ± 2	
		3.92	< 5	
		4.46	40 ± 2	$\delta = 0$
5.38	3^+	0	< 2	
		1.98	86.5 ± 2.2	$\delta = 0.00 \pm 0.05^c$
		3.55	< 3	
		3.92	13.5 ± 2.2	$\delta = (0)$
5.53	2^-	1.98	49 ± 2^b	$\delta = 0.00 \pm 0.02^c$
		3.92	24 ± 2	
		4.46	27 ± 2^b	$\delta = 0.00 \pm 0.04^c$
6.20	1^-	0	88 ± 2	
		1.98	≤ 10	

Table 18.3 from (1983AJ01): Radiative decays in ^{18}O ^a (continued)

E_i (MeV)	J_i^π	E_f (MeV)	Branch (%)	Comments
6.35	(2^-)	4.46	6 ± 2	$\delta = (0)$
		5.26 + 5.34	6 ± 2	
		1.98	32 ± 2	
		3.92	55 ± 2	
6.40	3^-	4.46	12 ± 2	$\delta = (0)$
		1.98	90 ± 5	$\delta = 0^c$
		3.92	10 ± 5	$\delta = (0)^c$
6.88 ^h	0^-	4.46	100	$\delta = 0^c$
7.12 ^{e,f}	4^+	1.98	27.1 ± 1.5	$\delta = -(0.052 \pm 0.035)$
		3.55	69.0 ± 1.7	$\Gamma_\gamma/\Gamma_\alpha = 0.9 \pm 0.1$
		3.92	3.9 ± 1	
7.62 ⁱ	1^-	0	14 ± 1	$\Gamma_\alpha\Gamma_\gamma/\Gamma = 0.34 \text{ eV}^d$
		1.98	54 ± 1	
		3.92	5 ± 1	
		4.46	12 ± 1	
		5.34	8 ± 1	
		6.20	7 ± 1	
		7.77	2^-	
7.86 ⁱ	(4^+)	4.46	11 ± 2	$\Gamma_\alpha\Gamma_\gamma/\Gamma = 0.89 \text{ eV}^d$
		5.10	36 ± 3^b	
		3.55	> 95	
7.98	$(3^+, 4^-)$	3.55	67 ± 2	$\Gamma_\alpha\Gamma_\gamma/\Gamma = 0.22 \text{ eV}^d$
		5.10	12 ± 2	
		5.38	21 ± 2	
		0	14 ± 1	
8.04 ⁱ	1^-	1.98	63 ± 1	$\Gamma_\alpha\Gamma_\gamma/\Gamma = 0.89 \text{ eV}^d$
		3.63	13 ± 1	
		4.46	2 ± 1	
		5.10	2 ± 1	
		5.26	6 ± 1	
8.13 ⁱ	5^-	3.55	94 ± 1	$\Gamma_\alpha\Gamma_\gamma/\Gamma = 0.22 \text{ eV}^d$

Table 18.3 from (1983AJ01): Radiative decays in ^{18}O ^a (continued)

E_i (MeV)	J_i^π	E_f (MeV)	Branch (%)	Comments
8.22 ⁱ	2 ⁺	5.10	6 ± 2	
		1.98	22 ± 1	
		3.55	3 ± 1	
		3.92	1.0 ± 0.5	
		4.46	49 ± 1	
8.29 ⁱ	3 ⁻	5.10	25 ± 1	
		3.55	49 ± 1	
		4.46	4 ± 1	
		5.26	47 ± 1	

^a See Table 18.3 in (1978AJ03) for references and for additional information.

^b See (1982OL01).

^c See Table IV in (1973OL02).

^d For all transitions from this state.

^e Recalculated to give total of 100%.

^f $\Gamma_\alpha\Gamma_\gamma/\Gamma = 42$ meV (1967LE02).

^g Transitions to $^{18}\text{O}^*(0, 3.55)$ are < 1 and < 0.5% (1982OL01).

^h Transitions to $^{18}\text{O}^*(5.53, 6.20)$ are < 8 and < 2% (1982OL01).

ⁱ (1982GA1D; preliminary). For earlier work see (1978AJ03).

^j M. Gai *et al.*, private communication, 1982. The weak transitions are not shown in Fig. 1 because it was prepared prior to this communication.