

Table 18.2 from (1972AJ02): Radiative decays in  $^{18}\text{O}$

$E_i$ (MeV)	$J_i^\pi$	$E_f$ (MeV)	Branch <sup>a</sup> (%)	$\Gamma_\alpha \Gamma_\gamma / \Gamma$ (eV)	Refs.
1.98	2 <sup>+</sup>	0	100	$B(E2) = (4.9 \pm 1.1)^d$ $= (4.6 \pm 1.4)^d$	(1967DEZW) (1968AN20)
3.55	4 <sup>+</sup>	0	< 4		(1959GO74)
		1.98	> 96		(1959GO74, 1961LI03)
			100		(1967LE02, 1967CH1D, 1971BE45)
3.63	0 <sup>+</sup>	0		$\Gamma_\pi = 1.9 \times 10^{-3} \Gamma_\gamma$	(1963GO32)
		1.98	> 85		(1961LI03)
			100		(1967LE02, 1967CH1D, 1971BE45)
3.92 <sup>b</sup>	2 <sup>+</sup>	0	6.5		(1964ES02)
			15		(1967MO09)
			15 ± 5		(1964GO11)
			15 ± 2		(1965OL02)
			12 ± 5		(1971BE45)
		1.98	93.5		(1964ES02)
			85		(1967MO09)
			> 85		(1961LI03)
			85 ± 5		(1964GO11)
			85 ± 2		(1965OL02)
			88 ± 5		(1971BE45)
4.45 <sup>c</sup>	1 <sup>-</sup>	0	< 2		(1964ES02, 1964GO11)
			< 4		(1965OL02)
			< 5		(1971BE45)
			< 1		(1967LE02, 1967CH1D)
		1.98	26		(1964ES02)
			28		(1967CH1D)
			37 ± 5		(1964GO11)
			36 ± 5		(1965OL02)
			32 ± 5		(1971BE45)
		3.63	74		(1964ES02)
			72		(1967CH1D)
			63 ± 5		(1964GO11)
			64 ± 5		(1965OL02)

Table 18.2 from (1972AJ02): Radiative decays in  $^{18}\text{O}$  (continued)

$E_i$ (MeV)	$J_i^\pi$	$E_f$ (MeV)	Branch <sup>a</sup> (%)	$\Gamma_\alpha\Gamma_\gamma/\Gamma$ (eV)	Refs.			
5.09	$3^-$	0	$68 \pm 5$		(1971BE45)			
			$< 10$		(1965OL02)			
		1.98	$< 5$		(1971BE45)			
			$> 90$		(1965OL02)			
			78		(1967CH1D)			
			81		(1966LO12)			
			$75 \pm 3$		(1971BE45)			
			3.55	6		(1967CH1D)		
				5		(1966LO12)		
			3.92	$9 \pm 3$		(1971BE45)		
				14		(1966LO12)		
			5.25 <sup>b</sup>	$2^+$	0	$16 \pm 3$		(1971BE45)
						32		(1967CH1D)
					1.98	40		(1966LO12)
$40 \pm 8$		(1965OL02)						
$41 \pm 6$		(1967MO09)						
$32 \pm 3$		(1971BE45)						
68		(1967CH1D)						
60		(1966LO12)						
$60 \pm 8$		(1965OL02)						
$59 \pm 6$		(1967MO09)						
$68 \pm 3$		(1971BE45)						
3.55	$< 4$					(1967MO09)		
3.63	$< 3$					(1967MO09)		
3.92	$< 5$					(1967MO09)		
5.33 <sup>b</sup>	$0^+$	4.45	$< 4$		(1967MO09)			
			1.98	63		(1966LO12)		
		3.92	$61 \pm 2$		(1971BE45)			
			10		(1966LO12)			
			27		(1966LO12)			
5.37	$3^+$	0	$39 \pm 2$		(1971BE45)			
			$< 2$		(1967MO09)			

Table 18.2 from (1972AJ02): Radiative decays in  $^{18}\text{O}$  (continued)

$E_i$ (MeV)	$J_i^\pi$	$E_f$ (MeV)	Branch <sup>a</sup> (%)	$\Gamma_\alpha \Gamma_\gamma / \Gamma$ (eV)	Refs.
5.52	$(2^-)$	1.98	85		(1966LO12)
			$88 \pm 3$		(1967MO09)
		3.55	$< 3$		(1967MO09)
		3.92	15		(1966LO12)
			$12 \pm 3$		(1967MO09)
		4.45	$< 2$		(1967MO09)
		1.98	48		(1967CH1D)
			65		(1966LO12)
		3.92	23		(1967CH1D)
			10		(1966LO12)
6.19	$1^-$	4.45	29	(1967CH1D)	
			25	(1966LO12)	
		0	$> 90$	(1967LE02)	
			88	(1967CH1D)	
			100	(1971BE45)	
		1.98	$< 5$	(1967LE02)	
			$\leq 10$	(1967CH1D)	
		4.45	$< 5$	(1967LE02)	
			12	(1967CH1D)	
					(1967CH1D)
6.34 + 6.39	$3^-$	1.98	$90 \pm 5$		(1971BE45)
6.39		3.92	$10 \pm 5$		(1971BE45)
		4.45	100		(1967CH1D)
6.86	$(0^-)$	4.45	100		(1967CH1D)
7.11	$4^+$	1.98	44	$1.2 \times 10^{-2}$	(1959GO74, 1961LI03)
			29		(1967CH1D)
			$26 \pm 2$		(1967LE02)
		3.55	56	$1.5 \times 10^{-2}$	(1959GO74, 1961LI03)
			71		(1967CH1D)
			$70 \pm 3$	$4.2 \times 10^{-2}$ e	(1967LE02)
		3.92	$4 \pm 1$		(1967LE02)
		4.45	$\leq 15$		(1967CH1D)
		5.09	$\leq 15$		(1967CH1D)

Table 18.2 from (1972AJ02): Radiative decays in  $^{18}\text{O}$  (continued)

$E_i$ (MeV)	$J_i^\pi$	$E_f$ (MeV)	Branch <sup>a</sup> (%)	$\Gamma_\alpha\Gamma_\gamma/\Gamma$ (eV)	Refs.	
7.62	$1^-$	0	35	$8 \times 10^{-2}$	(1958PH37)	
			33		(1959GO74, 1961LI03)	
			$24 \pm 2$		(1967LE02)	
		1.98	65	0.16	(1958PH37)	
			67		(1959GO74, 1961LI03)	
			$62 \pm 3$		(1967LE02)	
			3.55		0.34 <sup>e</sup>	(1958PH37)
			3.92			(1958PH37)
			4.45			(1967LE02)
			5.33			(1967LE02)
			6.19			(1967LE02)
			6.19			< 2
7.75	$1^-$	1.98	50	(1967CH1D)		
		4.45	11	(1967CH1D)		
		5.09	39	(1967CH1D)		
		5.25	$\leq 10$	(1967CH1D)		
		5.37	$\leq 10$	(1967CH1D)		
		6.34	$\leq 10$	(1967CH1D)		
7.96	$(3^+, 4^-)$	3.55	67	(1967CH1D)		
		5.09	12	(1967CH1D)		
		5.37	21	(1967CH1D)		
		6.39	< 15	(1967CH1D)		
8.04	$1^-$	0	30	0.89 <sup>e</sup>	(1958PH37)	
			$16 \pm 1$		(1967LE02)	
		1.98	70		(1958PH37)	
		$68 \pm 3$	(1967LE02)			
		3.55	< 15		(1958PH37)	
		3.63	$11 \pm 1$		(1967LE02)	
		3.92	< 15		(1958PH37)	
5.25	$5 \pm 1$	(1967LE02)				
8.12	$5^-$	3.55	> 95	0.22 <sup>e</sup>	(1967LE02)	
8.21	$2^+$	0	100		(1970DU1D)	

<sup>a</sup> The last value listed for each transition is believed to be the most reliable.

<sup>b</sup> See also (1967LE02).

<sup>c</sup> See also (1964CH19, 1967LE02).

<sup>d</sup>  $e^2 \times 10^{-51} \text{ cm}^4$ .

<sup>e</sup>  $\Gamma_\gamma \Gamma_\alpha / \Gamma$  for *all* transitions from this state.