

Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$ 

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)		Refs.
0.94	$3^+; 0$	0	100		
1.04	$0^+; 1$	0	100		Table 18.14 (1972AJ02)
1.08	$0^-; 0$	0	100		Table 18.14 (1972AJ02)
1.12	$5^+; 0$	0.94	100		Table 18.14 (1972AJ02)
1.70 <sup>a</sup>	$1^+; 0$	0	$29.8 \pm 1.3$		(1973RO05)
		0.94	$< 0.1$		(1973RO05)
		1.04	$70.2 \pm 1.3$		(1973RO05)
		1.08	$< 0.2$		(1973RO05)
2.10	$2^-; 0$	0	$35.8 \pm 1.5$ $38 \pm 1^A$	$\Gamma_\gamma = (4.6 \pm 2.2) \times 10^{-5}$ eV	Table 18.14 (1972AJ02) (1972RO04)
		0.94	$32.0 \pm 1.5$ $31 \pm 1^A$	$\Gamma_\gamma = (4.0 \pm 1.9) \times 10^{-5}$ eV	Table 18.14 (1972AJ02) (1972RO04)
		1.04	$< 0.4$		(1972RO04)
		1.08	$32.5 \pm 1.5$ $31 \pm 1^A$		Table 18.14 (1972AJ02) (1972RO04)
		1.13	$< 2$		(1967WA06)
		1.70	$< 0.2$		(1972RO04)
2.52 <sup>a,b</sup>	$2^+; 0$	0	$74.9 \pm 1.8$	$\delta = 3.0 \pm 1.0$	(1973RO05)
		0.94	$21.5 \pm 1.2$	$\delta = -(1.5 \pm 0.6)$	(1973RO05)
		1.04	$< 0.3$		(1973RO05)
		1.08	$< 0.3$		(1973RO05)
		1.70	$3.6 \pm 0.8$ $4.3 \pm 1.0$	$\delta = 0.94 \pm 0.4$	(1973RO05) Table 18.14 (1972AJ02)
		2.10	$< 0.2$		(1973RO05)
3.06 <sup>c</sup>	$2^+; 1$	0	$25 \pm 2$ $23.2 \pm 0.8^A$		(1966OL03) (1972RO24)
		0.94	$75 \pm 2$ $76.7 \pm 0.8$		(1966OL03) (1972RO24)
		1.04	$0.11 \pm 0.03$		(1972RO24)
		1.08	$< 8$		(1967WA06)
		1.13	$< 14$		(1967WA06)
		1.70	$< 8$		(1967WA06)
		2.10	$< 5$		(1967WA06)
		2.53	$< 5$		(1967WA06)
3.13	$1^-; 0$	0	$32 \pm 2$ $39 \pm 2^A$	$\delta = +(0.07 \pm 0.05)$ $\Gamma_\gamma = (5.7 \pm 2) \times 10^{-4}$	(1966OL03) (1972RO04) (1967WA06)
		0.94	$< 0.6$		(1972RO04)

Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$  (continued)

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)		Refs.		
3.36	$3^+; 0$	1.04	$34 \pm 2^A$	$\Gamma_\gamma = (7.3 \pm 2.7) \times 10^{-4}$	(1972RO04)		
		1.08	$25 \pm 2^A$		(1967WA06)		
		1.13	$< 8$		(1972RO04)		
		1.70	$2.0 \pm 0.5^A$	$\Gamma_\gamma = (4.8 \pm 1.8) \times 10^{-4}$	(1967WA06)		
		2.10	$< 3.0$		(1972RO04)		
		2.53	$< 0.3$	$\delta = +(0.22 \pm 0.15)$	(1972RO04)		
		0	$56 \pm 6$		(1966OL03)		
			$45 \pm 5^A$		(1973RO05)		
		0.94	$6 \pm 2$		Table 18.14 (1972AJ02)		
			$9 \pm 3^A$		(1973RO05)		
		1.04	$< 5$		(1967WA06)		
		1.08	$< 5$		(1967WA06)		
		1.12	$< 3$		(1973RO05)		
		1.70	$30 \pm 4$		(1966OL03)		
			$40 \pm 4^A$		(1973RO05)		
2.10	$7 \pm 4$	(1966OL03)					
	$< 3^A$	(1973RO05)					
2.52	$6 \pm 3$	$\delta = -0.4^{+0.3}_{-0.5}$	(1973RO05)				
3.06	$< 5$		(1973RO05)				
0	$6.4 \pm 1.6$		Table 18.14 (1972AJ02)				
3.72	$1^+; 0$		$5 \pm 2^A$	(1973RO04)			
		0.94	$< 2$	(1973RO04)			
		1.04	$94 \pm 2$	$\Gamma_\gamma > 8.2 \times 10^{-3} \text{ eV}$	(1967GO07, 1967OL03)		
			$91 \pm 2^A$		(1973RO04)		
		1.08	$< 1$		(1973RO04)		
		1.12	$< 10$		(1967OL03)		
		1.70	$< 1$		(1973RO04)		
		2.10	$< 1$		(1973RO04)		
		2.53	$< 1$		(1973RO04)		
		3.06	$4 \pm 2$		(1973RO04)		
		3.13	$< 1$		(1973RO04)		
		3.36	$< 4$		(1967OL03)		
		3.79 <sup>b</sup>	$3^-; 0$		0	$< 1.5$	(1973RO06)
					0.94	$< 2.0$	(1973RO06)
					1.12	$< 1.0$	(1973RO06)
1.70	$< 1.7$				(1973RO06)		

Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$  (continued)

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)		Refs.
3.84 <sup>b</sup>	$2^+; 0$	2.10	$68 \pm 4$	$\delta = -(0.22 \pm 0.06)^A$	(1973RO06)
				$\delta = -(0.10^{+0.07}_{-0.12})$	(1967OL03)
		2.52	$2.2 \pm 1.1$		(1973RO06)
		3.06	$30 \pm 3$	$\delta = -(0.09 \pm 0.09)$	(1973RO06)
		3.13	$< 0.9$		(1973RO06)
		3.36	$< 1.8$		(1973RO06)
		0	$38 \pm 2$	$\delta = -(1.8 \pm 0.5)$	(1973RO06)
		0.94	$8.9 \pm 1.4$	$\delta = -(0.3 \pm 0.3)$	(1973RO06)
		1.04	$< 1.3$		(1973RO06)
		1.08	$< 1.3$		(1973RO06)
		1.70	$3.0 \pm 1.0$		(1973RO06)
		2.10	$< 0.8$		(1973RO06)
		2.52	$< 1.3$		(1973RO06)
		4.12 <sup>d</sup>	$3^+; 0$	3.06	$50 \pm 3$
3.13	$< 0.7$				(1973RO06)
3.36	$< 1.5$				(1973RO06)
0	$5 \pm 3^A$				(1967OL03)
	$< 7$				(1973RO06)
0.94	$< 6$				(1973RO06)
1.12	$< 8$				(1967OL03, 1973RO06)
1.70	$< 8$				(1967OL03, 1973RO06)
2.10	$< 5$				(1973RO06)
2.52	$< 6$				(1973RO06)
3.06	$95 \pm 3^A$			$\delta = +0.09^{+0.12}_{-0.09}$	(1967OL03)
	100	$\delta = 0.03 \pm 0.10$	(1973RO06)		
4.23 <sup>b</sup>	$2^-; 0$	3.13	$< 4$		(1973RO06)
		3.36	$< 7$		(1973RO06)
		0	$23 \pm 2$	$\delta = 0.15 \pm 0.15$	(1973RO06)
		0.94	$49 \pm 3$	$\delta = 0.0 \pm 0.2$	(1973RO06)
		1.04	$< 2.4$		(1973RO06)
		1.08	$3.2 \pm 1.0$		(1973RO06)
		1.70	$9.3 \pm 1.2$		(1973RO06)
		2.10	$15 \pm 5$		(1973RO06)
		2.52	$< 1.4$		(1973RO06)
		3.06	$< 1.4$		(1973RO06)
		3.13	$0.9 \pm 0.6$		(1973RO06)
4.36	$1(+)$	3.36	$< 1.2$		(1973RO06)
		0	$< 10$		(1973RO04)

Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$  (continued)

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)		Refs.
4.40	$4^-; 0$	0.94	< 8	$\delta = -(0.2 \pm 0.3)$ $\delta = -(0.2 \pm 0.2)$	(1973RO04)
		1.04	< 8		(1973RO04)
		1.08	< 8		(1973RO04)
		1.70	< 8		(1973RO04)
		2.10	< 8		(1973RO04)
		2.52	< 10		(1973RO04)
		3.06	100		(1973RO04)
		3.13	< 10		(1973RO04)
		3.36	< 8		(1973RO04)
		3.72	< 8		(1973RO04)
		0.94	$13 \pm 4$		(1973RO06)
		1.12	$60 \pm 6$		(1973RO06)
		2.10	$27 \pm 3$		(1973RO06)
		2.52	< 4		(1973RO06)
4.65 <sup>b</sup>	$4^+; 1$	3.06	< 4	(1973RO06)	
		3.36	< 4	(1973RO06)	
		3.79	< 6	(1973RO06)	
		3.84	< 6	(1973RO06)	
		0.94	$17 \pm 3$	$\delta = 0.15 \pm 0.15$	(1973RO06)
		1.12	$83 \pm 3$		(1973RO06)
		2.10	< 0.9		(1973RO06)
		2.52	< 1.5		(1973RO06)
		3.06	< 1.2		(1973RO06)
		3.36	< 0.9		(1973RO06)
3.79	< 0.9	(1973RO06)			
3.84	< 0.9	(1973RO06)			
4.12	< 0.9	(1973RO06)			
4.75	$(0^+; 1)$	0	$92 \pm 4$		(1973RO06)
1.70		$8 \pm 4$	(1973RO06)		
2.10		< 10	(1973RO06)		
2.52		< 10	(1973RO06)		
3.06		< 10	(1973RO06)		
3.13		< 10	(1973RO06)		
3.72		< 10	(1973RO06)		
3.84		< 10	(1973RO06)		
4.86 <sup>b</sup>		$1^-; 0$	0	< 4	(1973RO06)
			0.94	< 5	(1973RO06)
	1.04		$65 \pm 11$	(1973RO06)	

Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$  (continued)

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)		Refs.		
4.96 <sup>e</sup>	2 <sup>+</sup> ; 1	1.08	8 ± 6		(1973RO06)		
		1.70	< 8		(1973RO06)		
		2.10	< 6		(1973RO06)		
		2.52	< 8		(1973RO06)		
		3.06	23 ± 7	$\delta = -(0.4 \pm 0.4)$	(1973RO06)		
		3.13	4 ± 3		(1973RO06)		
		3.36	< 6		(1973RO06)		
		3.72	< 7		(1973RO06)		
		0	100	$\delta = 1.2 \pm 0.7$	(1973RO06, 1973SE03)		
		5.30 <sup>f</sup>	4 <sup>+</sup> ; 0	0.94	13 ± 3		(1968PA10)
5.50 <sup>g</sup>	3 <sup>(-)</sup> ; 0		9 ± 2 <sup>A</sup>	$\delta = -(0.3 \pm 0.1)$	(1973RO03, 1973RO05)		
			7 ± 2	$\delta = -(1.1 \pm 0.5)$	(1973RO03, 1973RO05)		
		2.52	87 ± 3		(1968PA10)		
			78 ± 3 <sup>A</sup>		(1973RO03)		
				$\Gamma_\gamma = 12 \pm 4$ meV <sup>j</sup>	(1973RO05)		
		3.36	5 ± 1	$\delta = 2.5 \pm 0.8$	(1973RO03, 1973RO05)		
		4.65	1.3 ± 0.3		(1973RO03)		
		3.06	100	$\Gamma_\gamma = 2.1 \pm 0.7$ meV	(1973RO03, 1973RO06)		
		5.63 <sup>y</sup>	1 <sup>+</sup>	0	16.7 ± 2.3		(1977BE46)
		5.605 <sup>z</sup>	1 <sup>-</sup> ; 0 + 1	1.04	3.8 ± 1.2		(1977BE46)
3.06	79.5 ± 5.9				(1977BE46)		
0	6.7 ± 1.2				(1977BE46)		
1.04	4.2 ± 0.8				(1977BE46)		
1.08	54.3 ± 3.1				(1977BE46)		
3.06	2.6 ± 1.4				(1977BE46)		
3.13	32.2 ± 2.5			$\delta = -0.05 \pm 0.02$	(1977BE46)		
5.67 <sup>aa</sup>	1 <sup>-</sup> ; 0 + 1	0	6.2 ± 0.4	$\delta = -0.01 \pm 0.04$	(1977BE46)		
5.79 <sup>h</sup>	2 <sup>-</sup> ; 0	1.04	8.1 ± 0.7		(1977BE46)		
		1.08	52 ± 3		(1977BE46)		
		1.70	0.8 ± 0.3		(1977BE46)		
		2.10	0.4 ± 0.2		(1977BE46)		
		3.06	4.0 ± 0.4	$\delta = 0.04 \pm 0.06$	(1977BE46)		
		3.13	28.5 ± 2.0	$\delta = +0.10 \pm 0.03$	(1977BE46)		
		0.94	40 ± 8		(1973RO03)		
		1.08	60 ± 8		(1973RO03)		
		6.10 <sup>i</sup>	4 <sup>-</sup> ; 0	0.94	4.9 ± 0.9 <sup>A</sup>	$\Gamma_\gamma = 51 \pm 10$ meV <sup>j</sup>	(1973RO03, 1973RO06)
					6 ± 2		(1973SE03)
		1.12	55 ± 3 <sup>A</sup>		(1973RO03, 1973RO06)		

Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$  (continued)

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)		Refs.
6.11 <sup>k</sup>	1, 2, 3 <sup>(-)</sup> ; 0		66 ± 5	$\Gamma_\gamma > 1.6$ eV	(1973SE03)
		2.10	27 ± 2 <sup>A</sup>		(1973RO03, 1973RO06)
			28 ± 4		(1973SE03)
		3.79	1.4 ± 0.3		(1973RO03, 1973RO06)
		4.12	1.8 ± 0.3		(1973RO03, 1973RO06)
		4.40	0.7 ± 0.3		(1973RO03, 1973RO06)
		4.65	8.7 ± 0.7		(1973RO03, 1973RO06)
		0	24 ± 3		(1973RO03)
		0.94	11 ± 3		(1973RO03)
		2.10	20 ± 6		(1973RO03)
6.14 <sup>l</sup>	0 <sup>+</sup> ; 1	3.06	45 ± 5	$\Gamma_\gamma = 0.96 \pm 0.26$ eV <sup>j</sup>	(1973RO03)
		0	50 ± 3 <sup>A</sup>		(1973RO03, 1973RO04)
			54 ± 3		(1973SE03)
		1.70	12 ± 2 <sup>A</sup>		(1973RO03, 1973RO04)
			10 ± 1		(1973SE03)
		3.72	36 ± 3 <sup>A</sup>		(1973RO03, 1973RO04)
			36 ± 2		(1973SE03)
		4.36	2.1 ± 0.4 <sup>A</sup>		(1973RO03, 1973RO04)
		5.603	0.19 ± 0.02		(1977BE46)
		0	0.2 ± 0.2		(1973RO03)
6.16 <sup>m</sup>	3 <sup>+</sup> ; (1)	0.94	51 ± 3	$\Gamma_\gamma = 0.96 \pm 0.26$ eV <sup>j</sup>	(1973RO03, 1973SE03)
		1.12	1.0 ± 0.1		(1973RO03)
		2.52	5.5 ± 0.4 <sup>A</sup>		(1973RO03)
			8 ± 1		(1973SE03)
		3.06	1.3 ± 0.3		(1973RO03)
		3.79	11.6 ± 1.3 <sup>A</sup>		(1973RO03)
			13 ± 2		(1973SE03)
		3.84	25.0 ± 1.6 <sup>A</sup>		(1973RO03)
			28 ± 3		(1973SE03)
		4.12	1.5 ± 0.3		(1973RO03)
6.24 <sup>n</sup>	3 <sup>-</sup> ; 1	4.23	0.9 ± 0.3	$\Gamma_\gamma = 1.53 \pm 0.30$ eV <sup>j</sup>	(1973RO03)
		4.40	2.0 ± 0.2		(1973RO03)
		0.94	4.2 ± 0.4		(1973RO03, 1973RO06)
		2.10	71 ± 3		(1973RO03)
		3.36	1.0 ± 0.3		(1973RO03)
		3.79	11.4 ± 0.6		(1973RO03)
		3.84	1.1 ± 0.2		(1973RO03)
		4.12	0.8 ± 0.2		(1973RO03)

Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$  (continued)

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)		Refs.
6.26 6.28 <sup>o</sup>	1 <sup>+</sup> ; 0 2 <sup>+</sup> ; 1	4.23	7.8 ± 0.5	$\Gamma_\gamma = 1.8 \pm 0.5 \text{ eV}^j$	(1973RO03)
		4.40	2.7 ± 0.3		(1973RO03)
		0	(100)		(1973RO03)
		0	0.3 ± 0.1		(1973RO03)
		0.94	67 ± 3 <sup>A</sup>		(1973RO03)
			70 ± 4		(1973SE03)
		1.04	1.3 ± 0.1		(1973RO03)
		1.70	5.7 ± 0.6 <sup>A</sup>		(1973RO03)
			4 ± 1		(1973SE03)
		2.10	1.2 ± 0.3 <sup>A</sup>		(1973RO03)
			5 ± 2		(1973SE03)
		2.52	0.3 ± 0.2		(1973RO03)
		3.13	0.7 ± 0.3		(1973RO03)
		3.36	2.3 ± 0.3 <sup>A</sup>		(1973RO03)
			3 ± 1		(1973SE03)
		3.72	1.4 ± 0.5		(1973RO03)
		3.84	15.8 ± 1.4 <sup>A</sup>		(1973RO03)
	15 ± 2	(1973SE03)			
4.12	3.9 ± 0.2 <sup>A</sup>	(1973RO03)			
	3 ± 1	(1973SE03)			
6.31 <sup>P</sup>	3 <sup>+</sup> ; 0	4.36	0.5 ± 0.4	$\Gamma_\gamma = 0.17 \pm 0.04 \text{ eV}^j$	(1973RO03)
		0	4.0 ± 0.7		(1973RO03)
		0.94	10.6 ± 1.0		(1973RO03)
		1.70	3.0 ± 0.8		(1973RO03)
		2.52	4.0 ± 0.5		(1973RO03)
		3.06	57 ± 3		$\delta = -(0.03 \pm 0.10)$ (1973RO03, 1973RO07)
		3.72	1.4 ± 0.7		(1973RO03)
		3.84	4.6 ± 1.0		(1973RO03)
		4.12	2.4 ± 1.7		(1973RO03)
		4.96	13.0 ± 1.5		$\delta = -(0.01 \pm 0.14)$ (1973RO03, 1973RO07)
6.39 <sup>q</sup>	2 <sup>+</sup> ; 0 + 1	0	1.5 ± 0.5	$\Gamma_\gamma = 0.44 \pm 0.18 \text{ eV}^j$ (1973RO03)	
		0.94	75 ± 3 <sup>A</sup>	$\delta = -(0.25 \pm 0.10)$ (1973RO03, 1973RO07)	
			80 ± 3	(1973SE03)	
		1.70	6.8 ± 1.7 <sup>A</sup>	(1973RO03)	
			7 ± 1	(1973SE03)	
		3.84	14.1 ± 1.6 <sup>A</sup>	$\delta = 0.1 \pm 0.2$ (1973RO03, 1973RO07)	
			13 ± 2	(1973SE03)	
4.12	2.3 ± 0.5	(1973RO03)			

Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$  (continued)

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)		Refs.	
6.48 <sup>r</sup>	$3^+; (0)$	0	$13 \pm 2^A$	$\Gamma_\gamma = 74 \pm 21 \text{ meV}^j$	(1973RO03)	
			$15 \pm 2$		(1973SE03)	
		0.94	$33 \pm 2^A$		(1973RO03)	
			$31 \pm 3$		(1973SE03)	
		1.12	$10 \pm 2^A$		(1973RO03)	
			$14 \pm 2$		(1973SE03)	
		1.70	$4 \pm 2^A$		(1973RO03)	
			$4 \pm 1$		(1973SE03)	
		2.52	$4 \pm 2$		(1973RO03)	
		3.06	$21 \pm 3^A$		(1973RO03)	
			$28 \pm 3$		(1973SE03)	
		3.79	$4 \pm 2$		(1973RO03)	
		3.84	$9 \pm 2^A$		(1973RO03)	
			$8 \pm 1$		(1973SE03)	
		6.57 <sup>s</sup>	$5^+$		0.94	$15.2 \pm 1.6$
3.36	$83 \pm 3$			(1973RO03)		
5.30	$2.3 \pm 0.6$			(1973RO03)		
6.64 <sup>u</sup>	$2^-; 1$	0.94	$8.9 \pm 0.6^A$	$\Gamma_\gamma = 1.4 \pm 0.4 \text{ eV}^j$	(1973RO03, 1973RO06)	
			$12 \pm 1$		(1973SE03)	
		2.10	$58 \pm 3^A$		(1973RO03)	
			$72 \pm 3$		(1973SE03)	
		3.13	$22.0 \pm 1.3^A$		(1973RO03)	
			$16 \pm 2$		(1973SE03)	
		3.72	$0.9 \pm 0.2$		(1973RO03)	
		3.79	$2.4 \pm 0.2$		(1973RO03)	
		4.12	$1.0 \pm 0.3$		(1973RO03)	
		4.86	$2.6 \pm 0.2$		(1973RO03)	
6.78 <sup>v</sup>	$4^+; 0$	0.94	$12.6 \pm 0.9^A$	$\left\{ \begin{array}{l} \Gamma_\gamma = 0.31 \pm 0.08 \text{ eV}^j \\ \delta = -(0.35 \pm 0.18) \end{array} \right.$	(1973RO03, 1973RO07)	
			$15 \pm 3$		(1973SE03)	
		1.12	$25.2 \pm 1.3^A$		$\delta = -(1.4 \pm 1.1)$	(1973RO03, 1973RO07)
			$38 \pm 4$		(1973SE03)	
		4.65	$62 \pm 2^A$		$\delta = 0.13 \pm 0.13$	(1973RO03, 1973RO07)
6.80 <sup>w</sup>	$1^+, 2, 3^+; (0)$	0	$47 \pm 6$		(1973SE03)	
			$20 \pm 2^A$		(1973RO03)	
			$24 \pm 2$		(1973SE03)	



Table 18.11 from (1978AJ03): Radiative decays in  $^{18}\text{F}$  (continued)

$E_i$ (MeV)	$J_i^\pi; T$	$E_f$ (MeV)	Branch (%)	Refs.
6.88 <sup>x</sup>	$3^{(-)}, 4^{-}; (0)$	0.94	$20 \pm 2^{\text{A}}$	(1973RO03)
			$35 \pm 3$	(1973SE03)
		3.06	$50 \pm 3^{\text{A}}$	(1973RO03)
			$41 \pm 4$	(1973SE03)
		3.84	$3.0 \pm 1.6$	(1973RO03)
		4.96	$7.0 \pm 1.7$	(1973RO03)
		2.10	$9 \pm 2^{\text{A}}$	(1973RO03)
			$12 \pm 3$	(1973SE03)
		4.65	$91 \pm 2^{\text{A}}$	(1973RO03)
			$88 \pm 3$	(1973SE03)

A = adopted.

<sup>a</sup> See also (1972RO04, 1973RO04).

<sup>b</sup> See also Table 18.14 (1972AJ02).

<sup>c</sup> See also (1973RO04).

<sup>d</sup> Transitions to  $^{18}\text{F}^*(1.04, 1.08)$  are  $< 8\%$  (1967OL03).

<sup>e</sup> Upper limits for transitions to other states range from 2% to 7% (1973RO06).

<sup>f</sup> Branching ratios are  $< 0.4, < 0.8, < 0.5, < 1.0, < 1.5, < 0.4, < 0.4\%$  to  $^{18}\text{F}^*(2.10, 3.06, 3.79, 3.84, 4.12, 4.23, 4.40)$ .  $\Gamma_\alpha = 10 \pm 4$  meV;  $\Gamma_\gamma/\Gamma = 0.55 \pm 0.18$  (1973RO05).

<sup>g</sup> Upper limits for branching ratios to other states range from 2.2% to 4.2% (1973RO06).

<sup>h</sup> Upper limits for branching ratios to other states range from 5% to 19% (1973RO06).

<sup>i</sup> Upper limits for transitions to  $^{18}\text{F}^*(2.52, 3.06, 3.36, 3.84, 4.23, 4.96)$  are 0.4% (1973RO06).

<sup>j</sup> Total  $\Gamma_\gamma$  for this state (1973RO06, 1973RO07, 1977BE46).

<sup>k</sup> Upper limits for branching ratios to other states range from 3% to 8% (1973RO06).

<sup>l</sup> Upper limits for transitions to  $^{18}\text{F}^*(2.10, 2.52, 3.06, 3.13, 3.84, 4.23, 4.86, 4.96, 5.60, 5.67)$  are 1% (1973RO04).

<sup>m</sup> Upper limits for transitions to other states range from 0.2% to 0.5% (1973RO07).

<sup>n</sup> Upper limits for transitions to  $^{18}\text{F}^*(0, 1.12, 1.70, 4.36)$  are  $< 0.1\%$ ; those for transitions to  $^{18}\text{F}^*(2.52, 3.06, 3.13, 3.73, 4.65, 4.86, 4.96, 5.30, 5.50)$  are  $< 0.2\%$  (1973RO06).

<sup>o</sup> Upper limits for transitions to other states range from 0.2% to 0.8% (1973RO07).

<sup>p</sup> Upper limits for transitions to other states range from 0.2% to 1.0% (1973RO07).

<sup>q</sup> Upper limits for transitions to other states range from 0.4% to 3.0% (1973RO07).

<sup>r</sup> Upper limits for transitions to other states range from 1% to 4%; this state may correspond to an unresolved doublet (1973RO07).

<sup>s</sup> Branching ratios are  $< 0.7, < 1.4, < 1.3, < 0.8, < 0.9\%$  to  $^{18}\text{F}^*(1.12, 3.79, 4.12, 4.40, 4.65)$  (1973RO05).

<sup>t</sup>  $\Gamma_\alpha = \Gamma \approx 560$  eV,  $\Gamma_p < 4.5$  eV (1973RO05).

<sup>u</sup> Upper limits for transitions to other states range from 0.2% to 0.6% (1973RO06).

<sup>v</sup> Upper limits for transitions to other states range from 0.7% to 2.5% (1973RO07).

<sup>w</sup> Upper limits for transitions to other states range from 1.0% to 5% (1973RO07).

<sup>x</sup> Upper limits for transitions to other states range from 0.7% to 5.2% (1973RO06).

<sup>y</sup> Upper limits for transitions to other states range from 0.5% to 2.6% (1977BE46). See also (1973RO03).

<sup>z</sup> Upper limits for transitions to other states range from 0.3% to 1.5% (1977BE46). See also (1973RO03).

<sup>aa</sup> Upper limits for transitions to other states range from 0.3% to 0.6% (1977BE46). See also (1973RO03).