

Table 18.14 from (1972AJ02): Radiative decays in ^{18}F

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	Branch (%)	Γ_γ (eV)	Refs.
0.94	$3^+; 0$	0	100	$(2.2 \pm 0.2) \times 10^{-5}$	(1966AL04, 1966CH12, 1967GO07)
1.04	$0^+; 1$	0	100		
1.08	$0^-; 0$	0	100		
1.13	$5^+; 0$	0.94	100		
1.70 ^h	$1^+; 0$	0 ^a	35 ± 3	$ M(E2) ^2 = 4.62 \pm 0.16 \text{ W.u.}$	(1960RA18, 1966AL04, 1967OL03, 1967PO09, 1967WA19)
			28 ± 3		
		0.94	< 1		
		1.04 ^a	65 ± 3		
			72 ± 3		
		1.08	< 3.5		
		1.13	< 3		
		0 ^b	38 ± 3		
			36 ± 2		
			33 ± 3		
2.10 ^h	$2^-; 0$	0 ^b	36	$(4.6 \pm 2.2) \times 10^{-5}$	(1965PO01, 1966OL03, 1967GO07, 1967WA06)
			35.8 ± 1.5		
		0.94 ^b	30 ± 4		
			32 ± 2		
			33 ± 3		
			31		
			32.0 ± 1.5		
		1.04	< 3		
			< 0.8		
		1.08 ^b	32 ± 4		
	32 ± 2				
	34 ± 3				
2.53 ^h	$2^+; 0$	0 ^c	32.5 ± 1.5	$(4.0 \pm 1.9) \times 10^{-5}$	mean (1965CH10, 1965PO01) (1966OL03) (1967GO07) (1967WA06)
			< 3		
			< 2		
		1.13	< 3		
			< 4		
		1.70	< 4		
		0.94 ^c	73 ± 4		
			75 ± 4		
			23 ± 2		
			21 ± 4		
	< 0.5				
				$ M(E2) ^2 = 20 \pm 7 \text{ W.u.}$	mean (1966OL03, 1967GO07) (1967WA06) (1965PO01) (1966OL03) (1967GO07) (1967PO02)
					mean (1966OL03, 1967GO07) (1967WA06) (1967WA06) (1965PO01) (1966OL03) (1965PO01) (1966OL03) (1967WA06)

Table 18.14 from (1972AJ02): Radiative decays in ^{18}F (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	Branch (%)	Γ_γ (eV)	Refs.	
3.06	$2^+; 1$	1.08	< 0.5		(1967WA06)	
		1.13	< 4		(1967WA06)	
		1.70 ^b	4 ± 2		(1965PO01)	
			4 ± 1.5		(1966OL03)	
			5 ± 2		(1967WA06)	
		4.3 ± 1.0	mean			
		2.10	< 4		(1967WA06)	
		0	24 ± 4		(1965PO01)	
			25 ± 2		(1966OL03)	
		0.94	76 ± 4		(1965PO01)	
75 ± 2	(1966OL03)					
1.04	< 8	(1967WA06)				
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	31 ± 3	$(5.7 \pm 2) \times 10^{-4}$	(1965PO01)	
			32 ± 2		(1966OL03)	
		0.94	< 2		(1967WA06)	
		1.04 ^d	41 ± 4		$(7.3 \pm 2.7) \times 10^{-4}$	(1967WA06)
		1.08 ^d	27 ± 4		$(4.8 \pm 1.8) \times 10^{-4}$	(1967WA06)
		1.13	< 8		(1967WA06)	
		1.70	< 6		(1967WA06)	
		2.10	< 6		(1967WA06)	
		2.53	< 1		(1967WA06)	
		3.36	$3^+; 0$		0	53 ± 5
56 ± 6	(1966OL03)					
0.94	4 ± 4			(1965PO01)		
	7 ± 4			(1966OL03)		
	7 ± 3			(1967WA06)		
6 ± 2	mean					
1.04	< 5			(1967WA06)		
1.08	< 5			(1967WA06)		
1.13	< 25			(1967WA06)		
1.70	38 ± 4			(1965PO01)		

Table 18.14 from (1972AJ02): Radiative decays in ^{18}F (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	Branch (%)	Γ_γ (eV)	Refs.		
3.72	$1^+; 0^f$	2.10	30 ± 4	$> 8.2 \times 10^{-3}$	(1966OL03)		
			5 ± 4		(1965PO01)		
			7 ± 4		(1966OL03)		
			< 25		(1967WA06)		
			0		6 ± 2	(1967GO07)	
					6 ± 3	(1967OL03)	
		0.94	$(3^-); 0$		0	16 ± 8	(1967WA06)
						6.4 ± 1.6	mean
						< 6	(1967WA06)
						94 ± 2	(1967GO07)
						94 ± 3	(1967OL03)
						< 15	(1967WA06)
						< 10	(1967OL03)
						< 6	(1967OL03)
3.79	$(3^-); 0$	0	< 10	(1967OL03)			
			< 15	(1967OL03)			
			< 15	(1967OL03)			
			< 15	(1967OL03)			
			< 10	(1967OL03)			
			< 10	(1967OL03)			
			< 10	(1967OL03)			
			76 ± 10	(1967OL03)			
			4 ± 4	(1967OL03)			
			20 ± 8	(1967OL03)			
			< 10	(1967WA06)			
			< 20	(1967WA06)			
			3.84	2^+	0	39 ± 6	(1967GO07)
						41 ± 4	(1967OL03)
5 ± 4	(1967GO07)						
5 ± 3	(1967OL03)						
< 4	(1967OL03)						
< 3	(1967OL03)						
< 3	(1967OL03)						
3.84	2^+	0	$> 2.2 \times 10^{-3}$	(1967OL03)			
			5 ± 4	(1967GO07)			
			5 ± 3	(1967OL03)			
			< 4	(1967OL03)			
			< 3	(1967OL03)			
			< 3	(1967OL03)			
			< 3	(1967OL03)			

Table 18.14 from (1972AJ02): Radiative decays in ^{18}F (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	Branch (%)	Γ_γ (eV)	Refs.
4.12	3^+ g	1.70	4 ± 4		(1967GO07)
			4 ± 3		(1967OL03)
		2.10	< 5		(1967OL03)
		2.53	< 2		(1967OL03)
		3.06	61 ± 6		(1967GO07)
			50 ± 4		(1967OL03)
		3.13	< 6		(1967OL03)
		3.36	< 9		(1967OL03)
		0	5 ± 3		(1967OL03)
		0.94	< 8		(1967OL03)
		1.04	< 8		(1967OL03)
		1.08	< 8		(1967OL03)
		1.13	< 8		(1967OL03)
		1.70	< 8		(1967OL03)
		2.10	< 15		(1967OL03)
4.23	(2)	2.53	< 15		(1967OL03)
		3.06	95 ± 3		(1967OL03)
		3.13	< 13		(1967OL03)
		3.36	< 10		(1967OL03)
		0 ^e	32 ± 5		(1967GO07)
		0.94 ^e	55 ± 5		(1967GO07)
		1.04	< 5		(1967OL03)
		1.08	(≤ 5)		(1967OL03)
		1.13	< 10		(1967OL03)
		1.70	5 ± 3		(1967OL03)
		2.10 ^e	13 ± 5		(1967GO07)
		2.53	< 4		(1967OL03)
		3.06	< 3		(1967OL03)
		3.13	(≤ 5)		(1967OL03)
		3.36	< 5		(1967OL03)
4.36	2, 3	0.94	< 20		(1967GO07, 1967OL03)
		3.06	(100)		(1967GO07)
4.40	$\geq 2; 0$		> 60		(1967OL03)
		0.94	< 40		(1967GO07)
			≤ 30		(1967OL03)
		1.13	(100)		(1967GO07)
			> 70		(1967OL03)

Table 18.14 from (1972AJ02): Radiative decays in ^{18}F (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	Branch (%)	Γ_γ (eV)	Refs.		
4.66	$4^+; 1^g$	0	< 5		(1967OL03)		
		0.94	15 ± 5		(1967OL03)		
		1.04	< 5		(1967OL03)		
		1.08	< 5		(1967OL03)		
		1.13	85 ± 5		(1967OL03)		
		1.70	< 5		(1967OL03)		
		2.10	< 10		(1967OL03)		
		2.53	< 10		(1967OL03)		
		3.06	< 4		(1967OL03)		
		3.13	< 4		(1967OL03)		
		3.36	< 3		(1967OL03)		
		4.74	$0^+; 1$	0	(100)		(1967GO07)
				4.85	$1; 0$	0	< 6
4.85	$1; 0$	0.94	< 4		(1967OL03)		
		1.04	65 ± 4		(1967GO07)		
			60 ± 10		(1967OL03)		
		1.08	< 15		(1967OL03)		
		1.13	< 15		(1967OL03)		
		1.70	< 10		(1967OL03)		
		2.10	< 15		(1967OL03)		
		2.53	< 10		(1967OL03)		
		3.06	35 ± 4		(1967GO07)		
			40 ± 10		(1967OL03)		
		3.13	< 15		(1967OL03)		
3.36	< 15		(1967OL03)				
4.96	$2^+; 1$	0	(100)		(1967GO07)		
5.30	$4^+; 1$	0.94	13 ± 3		(1968PA10)		
			9		(1971RO25)		
		1.13	7		(1971RO25)		
		2.53	87 ± 3		(1968PA10)		
			78		(1971RO25)		
		3.36	5		(1971RO25)		
	4.66	1		(1971RO25)			
5.50				$\Gamma_\gamma/\Gamma = 0.38 \pm 0.12$	(1967GO07)		
5.61 ⁱ	$1^-; 0, 1$	0	10 ± 1		(1968PA10)		
		1.04	4 ± 1		(1971CH1F)		
				$\omega\Gamma_\gamma = 0.027 \pm 0.003 \text{ eV}$	(1971CH1F)		

Table 18.14 from (1972AJ02): Radiative decays in ^{18}F (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	Branch (%)	Γ_γ (eV)	Refs.
5.67	$1^-; 0, 1$	1.08	35 ± 2	$\left\{ \begin{array}{l} 0.17 \pm 0.09 \\ \Gamma_\gamma = 66 \pm 21 \text{ meV} \\ 0.063 \end{array} \right.$	(1971CH1F)
		3.06	30 ± 2		(1971CH1F)
		3.13	21 ± 2		(1971CH1F)
		0	6 ± 1		(1971CH1F)
		1.04	8 ± 1		(1971CH1F)
		1.08	52 ± 3		(1971CH1F)
		3.06	4 ± 1		(1971CH1F)
		3.13	29 ± 2		(1971CH1F)
6.10	$4^-; 0$	0.94	6		(1971BE1E)
			6		(1971SE1H)
		1.13	57		(1971BE1E)
			66		(1971SE1H)
		2.10	25		(1971BE1E)
			28		(1971SE1H)
		3.79	2		(1971BE1E)
		4.12	2		(1971BE1E)
		4.66	8	(1971BE1E)	
		6.14	0^+	0	54
1.70	10			(1971SE1H)	
3.72	36			(1971SE1H)	
6.16	3^+			0.94	51
		2.53	8	(1971SE1H)	
		3.79	13	(1971SE1H)	
		3.84	28	(1971SE1H)	
		6.24 ^j	3^-	0.94	5
2.10	76			(1971SE1H)	
3.79	12			(1971SE1H)	
4.23	7			(1971SE1H)	
6.27	2^+	0.94	70	1.91	(1971SE1H)
		1.70	4	(1971SE1H)	
		2.10	5	(1971SE1H)	
		3.36	3	(1971SE1H)	
		3.84	15	(1971SE1H)	
		4.12	3	(1971SE1H)	
		6.31	$2^+, 3^+$	0	4
0.94	33			(1971SE1H)	

Table 18.14 from (1972AJ02): Radiative decays in ^{18}F (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	Branch (%)	Γ_γ (eV)	Refs.
6.39		3.06	55	0.18	(1971SE1H)
		4.96	8		(1971SE1H)
		0.94	80	0.16	(1971SE1H)
		1.70	7		(1971SE1H)
6.48		3.84	13		(1971SE1H)
		0	15		(1971SE1H)
		0.94	31	0.094	(1971SE1H)
		1.13	14		(1971SE1H)
		1.70	4		(1971SE1H)
6.57	$5^+; 0$	3.06	28		(1971SE1H)
		3.84	8		(1971SE1H)
		0.94	(100)	0.043	(1971SE1H)
			15		(1971RO25)
		3.36	83		(1971RO25)
6.65 ^j	(2^-)	5.30	2		(1971RO25)
		0.94	12		(1971SE1H)
		2.10	72	1.23	(1971SE1H)
6.78	$4^+, 5^+$	3.13	16		(1971SE1H)
		0.94	15		(1971SE1H)
		1.13	38		(1971SE1H)
6.81	2^-	4.66	47	0.48	(1971SE1H)
		0	24		(1971SE1H)
		0.94	35		(1971SE1H)
6.86		3.06	41	0.17	(1971SE1H)
		0.94	12		(1971SE1H)
		4.66	88	0.15	(1971SE1H)

^a See also (1960RA18, 1961KU02, 1963LI07, 1967WA06).

^b See also (1961KU02, 1966CH12).

^c See also (1961KU02, 1967WA06).

^d See also (1965PO01, 1966OL03).

^e See also (1967OL03).

^f Parity is positive: see (1970RO1F).

^g Parity is positive: see (1970DU08).

^h See also (1966HA31).

ⁱ See also (1955PR1A, 1958AL03).

^j See also (1958PH37).