

Table 20.6 from (1998TI06): Radiative transitions in ^{20}F ^a

E_i (MeV \pm keV)	J_i^π	E_f (MeV \pm keV)	Branching (%)	δ
0.65602 \pm 0.03	3 ⁺	0	100	0.10 \pm 0.05
0.82273 \pm 0.03	4 ⁺	0	33.2 \pm 2.4	
		0.65602 \pm 0.03	66.8 \pm 2.4	
0.98359 \pm 0.03	1 ⁻	0	100	b
1.056848 \pm 0.004	1 ⁺	0	100	
1.30919 \pm 0.03	2 ⁻	0	91.7 \pm 0.6	b
		0.65602 \pm 0.03	2.4 \pm 0.4	
		0.98359 \pm 0.03	4.9 \pm 0.4	
		1.056848 \pm 0.004	1.0 \pm 0.3	
1.8238 \pm 1.6	5 ⁺	0.82273 \pm 0.03	100	-0.03 \pm 0.07
1.84380 \pm 0.03	2 ⁻	0	91.3 \pm 0.6	
		0.65602 \pm 0.03	6.7 \pm 0.5	
		1.30919 \pm 0.03	1.9 \pm 0.3	
1.97083 \pm 0.04	(3 ⁻)	0	17.7 \pm 1.7	-0.06 \pm 0.14
		0.82273 \pm 0.03	51.9 \pm 2.7	+0.27 \pm 0.30
		0.98659 \pm 0.03	0.8 \pm 0.4	
		1.30919 \pm 0.03	29.7 \pm 3.0	
2.04398 \pm 0.03	2 ⁺	0	7.5 \pm 0.6	
		0.65602 \pm 0.03	91.8 \pm 0.7	0.08 ^{+0.06} _{-0.1}
		1.30919 \pm 0.03	0.7 \pm 0.3	
2.19430 \pm 0.03	3 ⁺	0	47.0 \pm 1.9	0.00 \pm 0.09
		0.82273 \pm 0.03	51.2 \pm 1.9	+0.07 \pm 0.10
		1.30919 \pm 0.03	1.8 \pm 0.4	
2.86486 \pm 0.10	(3 ⁻)	0	38.1 \pm 6.8	
		0.65602 \pm 0.03	4.8 \pm 2.4	
		0.82273 \pm 0.03	11.9 \pm 4.5	
		1.30919 \pm 0.03	11.9 \pm 2.6	
		1.84380 \pm 0.03	7.1 \pm 2.4	
		1.97083 \pm 0.04	7.1 \pm 2.4	
		2.04398 \pm 0.03	11.9 \pm 4.5	
		2.19430 \pm 0.03	7.1 \pm 2.4	

Table 20.6 from (1998TI06): Radiative transitions in ^{20}F ^a (continued)

E_i (MeV \pm keV)	J_i^π	E_f (MeV \pm keV)	Branching (%)	δ
2.96611 \pm 0.03	3 ⁺	0	27.1 \pm 1.4	
		0.65602 \pm 0.03	12.2 \pm 1.2	
		0.82273 \pm 0.03	58.3 \pm 1.7	
		2.19430 \pm 0.03	2.4 \pm 0.6	
2.96800 \pm 1.50	(4 ⁻)	0.65602 \pm 0.03	10 \pm 10	
		0.82273 \pm 0.03	38 \pm 10	
		1.30919 \pm 0.03	12 \pm 10	
		1.97083 \pm 0.04	40 \pm 10	
3.17169 \pm 0.14	(0 ⁻ , 1 ⁺)	0.98359 \pm 0.03	100	
3.48841 \pm 0.03	1 ⁺	0	72.6 \pm 2.5	
		0.98359 \pm 0.03	3.8 \pm 0.5	
		1.056848 \pm 0.004	7.1 \pm 2.9	
		1.30919 \pm 0.03	9.2 \pm 0.7	
		1.84380 \pm 0.03	7.4 \pm 0.7	
3.52631 \pm 0.04	(0 ⁺)	1.056848 \pm 0.004	100	
3.58654 \pm 0.03	(2)	0	32.9 \pm 1.6	
		0.65602 \pm 0.03	9.8 \pm 0.7	
		0.98359 \pm 0.03	4.0 \pm 0.4	
		1.056848 \pm 0.004	10.2 \pm 3.1	
		1.84380 \pm 0.03	0.7 \pm 0.3	
		2.04398 \pm 0.03	31.1 \pm 1.5	
		2.19430 \pm 0.03	8.8 \pm 0.8	
		2.96611 \pm 0.03	2.6 \pm 0.3	
3.58980 \pm 0.04	(3)	0	83.2 \pm 1.5	
		0.65602 \pm 0.03	10.7 \pm 1.3	
		2.04398 \pm 0.03	6.1 \pm 0.9	
3.669 \pm 3		0	100	
3.68017 \pm 0.04	(2)	0	46.5 \pm 2.3	
		0.65602 \pm 0.03	17.1 \pm 1.9	
		1.056848 \pm 0.004	23.5 \pm 1.6	
		1.30919 \pm 0.03	4.3 \pm 1.1	

Table 20.6 from (1998TI06): Radiative transitions in ^{20}F ^a (continued)

E_i (MeV \pm keV)	J_i^π	E_f (MeV \pm keV)	Branching (%)	δ
3.96507 \pm 0.04	(1 ⁺)	1.84380 \pm 0.03	8.6 \pm 1.1	
		0.98359 \pm 0.03	26.1 \pm 2.6	
		1.30919 \pm 0.03	58.2 \pm 2.9	
		1.84380 \pm 0.03	10.4 \pm 1.5	
4.08217 \pm 0.04	(1 ⁺)	3.17169 \pm 0.14	5.2 \pm 1.5	
		0	35.5 \pm 2.2	
		0.98359 \pm 0.03	4.6 \pm 1.3	
		1.056848 \pm 0.004	50.0 \pm 2.3	
4.27709 \pm 0.04	(1 ⁺ , 2 ⁺)	2.04398 \pm 0.03	9.9 \pm 1.3	
		0.98359 \pm 0.03	24.1 \pm 2.4	
		1.056848 \pm 0.004	56.5 \pm 2.8	
4.37147 \pm 0.11		2.04398 \pm 0.03	19.4 \pm 2.5	
		0.98359 \pm 0.03	93.8 \pm 3.0	
4.59172 \pm 0.07		3.68017 \pm 0.04	6.2 \pm 3.0	
		0.98359 \pm 0.03	60.0 \pm 6.2	
4.89276 \pm 0.17		1.056848 \pm 0.004	40.0 \pm 6.2	
		0.82273 \pm 0.03	35.0 \pm 7.6	
		2.19430 \pm 0.03	20.0 \pm 4.9	
5.28279 \pm 0.17		3.58654 \pm 0.03	45.0 \pm 7.5	
		0	57 \pm 10	
		1.056848 \pm 0.004	43 \pm 10	
5.31917 \pm 0.04		0	22.6 \pm 3.1	
		0.98359 \pm 0.03	56.0 \pm 3.7	
		1.056848 \pm 0.004	3.6 \pm 1.2	
		1.30919 \pm 0.03	11.9 \pm 3.3	
		1.84380 \pm 0.03	6.0 \pm 1.2	
5.46589 \pm 0.17		2.86486 \pm 0.10	100	
5.55534 \pm 0.04		0	30.6 \pm 2.0	
		0.65602 \pm 0.03	4.1 \pm 1.2	
		1.30919 \pm 0.03	54.7 \pm 2.3	
		1.84380 \pm 0.03	7.1 \pm 1.7	

Table 20.6 from (1998TI06): Radiative transitions in ^{20}F ^a (continued)

E_i (MeV \pm keV)	J_i^π	E_f (MeV \pm keV)	Branching (%)	δ
5.62313 \pm 0.06		2.86486 \pm 0.10	3.5 \pm 0.6	
		0	13.8 \pm 3.3	
		0.98359 \pm 0.03	39.7 \pm 5.1	
		1.30919 \pm 0.03	31.0 \pm 4.5	
5.93613 \pm 0.03	2 ⁻	2.04398 \pm 0.03	15.5 \pm 3.3	
		0	6.6 \pm 0.7	
		0.65602 \pm 0.03	28.7 \pm 1.1	
		0.98359 \pm 0.03	4.0 \pm 0.4	
		1.056848 \pm 0.004	0.6 \pm 0.2	
		1.30919 \pm 0.03	0.5 \pm 0.2	
		1.84380 \pm 0.03	1.2 \pm 0.2	
		1.97083 \pm 0.04	30.0 \pm 1.0	
		2.04398 \pm 0.03	1.2 \pm 0.2	
		2.19430 \pm 0.03	4.0 \pm 0.4	
		2.86486 \pm 0.10	1.4 \pm 0.2	
		2.96611 \pm 0.03	1.1 \pm 0.2	
		3.48841 \pm 0.03	9.6 \pm 0.5	
		3.58654 \pm 0.03	2.1 \pm 0.2	
		3.58980 \pm 0.04	1.4 \pm 0.3	
		3.68017 \pm 0.04	5.9 \pm 0.4	
		3.96507 \pm 0.04	0.7 \pm 0.2	
4.08217 \pm 0.04	0.9 \pm 0.2			
5.93910 \pm 0.10		0	12.4 \pm 3.1	
		0.98359 \pm 0.03	23.6 \pm 3.1	
		1.84380 \pm 0.03	31.5 \pm 3.2	
		2.04398 \pm 0.03	13.5 \pm 3.1	
		3.58654 \pm 0.03	19.1 \pm 3.1	
6.01778 \pm 0.03	2 ⁻	0	26.0 \pm 1.0	
		0.65602 \pm 0.03	3.3 \pm 0.2	
		0.98359 \pm 0.03	17.2 \pm 0.7	
		1.056848 \pm 0.004	0.7 \pm 0.1	

Table 20.6 from (1998TI06): Radiative transitions in ^{20}F ^a (continued)

E_i (MeV \pm keV)	J_i^π	E_f (MeV \pm keV)	Branching (%)	δ
6.04498 \pm 0.08		1.30919 \pm 0.03	1.4 \pm 0.2	
		1.84380 \pm 0.03	4.6 \pm 0.2	
		1.97083 \pm 0.04	1.0 \pm 0.1	
		2.04398 \pm 0.03	0.7 \pm 0.1	
		2.19430 \pm 0.03	2.9 \pm 0.2	
		2.86486 \pm 0.10	0.4 \pm 0.1	
		2.96611 \pm 0.03	8.2 \pm 0.4	
		3.48841 \pm 0.03	16.0 \pm 0.8	
		3.58654 \pm 0.03	9.7 \pm 0.8	
		3.58980 \pm 0.04	5.3 \pm 0.2	
		3.68017 \pm 0.04	0.4 \pm 0.1	
		3.96507 \pm 0.04	0.14 \pm 0.03	
		4.08217 \pm 0.04	2.0 \pm 0.2	
		1.30919 \pm 0.03	27.7 \pm 1.8	
1.84380 \pm 0.03	55.4 \pm 2.1			
3.48841 \pm 0.03	8.2 \pm 1.5			
3.58654 \pm 0.03	3.1 \pm 0.6			
3.96507 \pm 0.04	5.6 \pm 1.0			
6.519 \pm 3 ^c	0 ⁺	1.056848 \pm 0.004	> 90	
6.60135 \pm 0.04 ^d		0	9.85 \pm 0.42	
		0.98359 \pm 0.03	1.45 \pm 0.07	
		1.056848 \pm 0.004	4.30 \pm 0.18	
		1.30919 \pm 0.03	2.47 \pm 0.12	
		1.84380 \pm 0.03	1.98 \pm 0.09	
		1.97083 \pm 0.04	0.06 \pm 0.02	
		2.04398 \pm 0.03	5.47 \pm 0.23	
		3.48841 \pm 0.03	2.52 \pm 0.11	
		3.52631 \pm 0.04	1.98 \pm 0.10	
		3.58654 \pm 0.03	4.24 \pm 0.18	
		3.68017 \pm 0.04	0.99 \pm 0.06	
		3.96507 \pm 0.04	1.02 \pm 0.06	

Table 20.6 from (1998TI06): Radiative transitions in ^{20}F ^a (continued)

E_i (MeV \pm keV)	J_i^π	E_f (MeV \pm keV)	Branching (%)	δ
		4.08217 \pm 0.04	0.73 \pm 0.06	
		4.27709 \pm 0.04	1.23 \pm 0.06	
		4.37147 \pm 0.11	0.54 \pm 0.04	
		4.59172 \pm 0.07	0.49 \pm 0.05	
		4.89276 \pm 0.17	0.27 \pm 0.04	
		5.22610 \pm 0.40	0.05 \pm 0.02	
		5.28279 \pm 0.17	0.24 \pm 0.03	
		5.31917 \pm 0.04	0.90 \pm 0.06	
		5.46589 \pm 0.17	0.09 \pm 0.03	
		5.55534 \pm 0.04	1.85 \pm 0.10	
		5.62313 \pm 0.06	0.64 \pm 0.11	
		5.81010 \pm 0.40	0.04 \pm 0.01	
		5.93613 \pm 0.03	15.6 \pm 0.8	
		5.93910 \pm 0.10	1.07 \pm 0.16	
		6.01778 \pm 0.03	37.7 \pm 1.1	
		6.04498 \pm 0.08	2.12 \pm 0.14	
		6.29910 \pm 0.03	0.05 \pm 0.02	
e				

^a Branching ratios from Table II of (1996RA04) renormalized to add to 100%. For unobserved transition upper limits see Table VI of (1996RA04).

^b Pure E1.

^c See ²⁰F, reaction 12.

^d Capturing state. See Table 20.11 and (1996RA04).

^e For higher states see Table 20.9. See also Table 20.7 in (1987AJ02).