

Table 20.3 from (1987AJ02): Radiative transitions in ^{20}F ^a

E_i (MeV)	J_i^π	E_f (MeV)	Branching (%)	δ
0.66	3^+	0	100	0.10 ± 0.05
0.82	4^+	0	36 ± 3	
		0.66	64 ± 3^d	
0.98	1^-	0	100	f
1.06	1^+	0	100	
1.31	2^-	0	100	f
1.82	5^+	0.82	≥ 95	-0.03 ± 0.07
1.84	2^-	0	100	
1.97	(3^-)	0	16 ± 4	-0.06 ± 0.14
		0.82	55 ± 3	$+0.27 \pm 0.30$
		1.31	29 ± 3	
2.04	2^+	0	8.1 ± 1.9	
		0.66	91.9 ± 1.9	$0.08_{-0.1}^{+0.06}$
2.19	3^+	0	53.7 ± 2.1	0 ± 0.09
		0.82^d	46.3 ± 2.1	$+0.07 \pm 0.10$
2.86 ^b	(3^-)	0	(100)	
2.966 ^c	3^+	0	23 ± 3	
		0.66	21 ± 3	
		0.82	56 ± 3	
2.968	(4^-)	0.82	39 ± 4	
		1.97	61 ± 4	
3.17 ^b	(1^+)	0.98	> 95	
3.49 ^c	1^+	0	63 ± 4	
		1.06	22 ± 4	
		1.31	8 ± 2	
		1.84	7 ± 2	
3.53	0^+	1.06	100	
3.59	$(1, 2)^+$	0	30.5 ± 2.4	
		0.66	9.8 ± 1.2	
		0.98	3.5 ± 1.0	
		2.04	50 ± 3	
		2.19	7 ± 3	

Table 20.3 from (1987AJ02): Radiative transitions in ^{20}F ^a (continued)

E_i (MeV)	J_i^π	E_f (MeV)	Branching (%)	δ
3.68	1, 2	0 ^d	66 ± 4	
		1.06	34 ± 4	
3.97	1 ⁺	0.98	24 ± 6	
		1.31	76 ± 6	
4.08	(1) ⁺	0	34 ± 3	
		1.06	66 ± 3	
4.28	(1, 2) ⁺	1.06	100	
4.37	(2) ⁺	0.82	7 ± 3	
		0.98	34 ± 5	
		2.97	59 ± 5	
4.51	1 ⁺ , 2	0.66	100	
5.32	0 – 2	0	34 ± 7	
		0.98	66 ± 7	
5.56	1 ⁻	0	29 ± 4	
		1.31	37 ± 5	
		3.53	34 ± 7	
5.94	2 ⁻	0	6.4 ± 0.4	
		0.66	22.7 ± 1.4	
		0.98	11 ± 3	
		1.97	24.2 ± 1.4	
		2.04	2.5 ± 0.5	
		2.19	4.1 ± 0.6	
		2.97	2.5 ± 0.7	
		3.49	9.1 ± 1.2	
		3.59	7.8 ± 1.6	
		3.68	7.2 ± 0.8	
6.02	2 ⁻	3.97	(2.7 ± 0.9)	
		0	24.3 ± 1.2	
		0.66	3.05 ± 0.17	
		0.98	15.1 ± 0.7	
		1.31	0.83 ± 0.21	
		1.84	5.3 ± 0.4	

Table 20.3 from (1987AJ02): Radiative transitions in ^{20}F ^a (continued)

E_i (MeV)	J_i^π	E_f (MeV)	Branching (%)	δ
6.05	0 - 2	1.97	1.04 ± 0.23	
		2.04	0.68 ± 0.15	
		2.19	3.8 ± 0.4	
		2.97	8.9 ± 0.5	
		3.49	20.8 ± 1.1	
		3.59	13.6 ± 2.4	
		4.08	2.6 ± 0.4	
		1.31	21 ± 2	
		1.84	36 ± 3	
		3.49	15 ± 5	
6.60 ^g	0 ⁺ , 1 ⁺	3.53	(28 ± 3)	
		0	8.5 ± 0.6	
		0.98	1.29 ± 0.10	
		1.06	3.4 ± 0.3	
		1.31	2.21 ± 0.13	
		1.84	1.62 ± 0.11	
		2.04	4.9 ± 0.3	
		3.49	2.31 ± 0.18	
		3.53	2.05 ± 0.21	
		3.59	4.7 ± 0.3	
		3.68	0.99 ± 0.18	
		3.97	0.82 ± 0.12	
		4.08	(0.90 ± 0.13)	
		4.28	1.42 ± 0.20	
		4.37	0.83 ± 0.14	
		4.51	0.53 ± 0.17	
		5.32	1.5 ± 0.5	
		5.56	2.4 ± 0.4	
		5.94	15.0 ± 1.5	
		6.02	40 ± 3	
6.05	4.8 ± 0.5			
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- ^a Branching ratios from (1983HU12) and from the earlier work displayed in Tables 20.5 in (1978AJ03) and 20.4 in (1983AJ01). Branching ratios renormalized to add to 100%, except for $^{20}\text{F}^*(6.60)$.
- ^b The population of $^{20}\text{F}^*(2.86)$ and the γ -decay of $^{20}\text{F}^*(3.17)$ are not observed by (1983HU12) [(n, γ)]. See also (1987AL06).
- ^c See, however, Table 20.5 in (1978AJ03).
- ^d Transition not observed by (1983HU12) because of a background problem.
- ^e For higher states see Tables 20.6 and 20.7.
- ^f Pure E1.
- ^g See Table 20.8.