Table 20.4 from (1978AJ03): Energy levels of ^{20}F [a]

E_x (MeV ± keV)	J^π; T	τ	Decay	Reactions
0	2^+; 1	$\tau_{1/2} = 11.0 \pm 0.02$ sec	β^-	1, 2, 3, 13, 16, 17, 25, 28, 31, 34, 37, 38, 39
0.65594 ± 0.15	3^+	$\tau_m = 0.39 \pm 0.03$ psec	γ	3, 13, 17, 25, 28, 34, 38
0.82288 ± 0.20	4^+	79 ± 6 psec	γ	3, 12, 13, 17, 25, 34, 38
0.98371 ± 0.20	1^-	2.03 ± 0.20 psec	γ	3, 12, 13, 17, 25, 34, 38
1.05693 ± 0.20	1^+	45 ± 13 fsec	γ	3, 13, 17, 25, 30, 34, 38
1.30923 ± 0.20	2^-	1.16 ± 0.20 psec	γ	3, 12, 13, 17, 25, 34, 38
1.8244 ± 1.2	5^+	≤ 65 fsec	γ	3, 12, 13, 25, 38
1.84337 ± 0.30	2^-	30 ± 20 fsec	γ	3, 13, 17, 25, 34, 38
1.9707 ± 0.4	(3^-)		γ	3, 12, 13, 17, 38
2.04400 ± 0.30	2^+	37 ± 16 fsec	γ	3, 13, 17, 25, 28, 34, 38
2.1948 ± 0.4	(3^+)	< 12 fsec	γ	3, 13, 17, 25, 34, 38
2.8649 ± 1.5	(2, 3, 4)		γ	3, 13, 25, 38
2.9661 ± 0.4	3^+	60 ± 40 fsec	γ	3, 13, 17, 25, 38
3.1740 ± 1.5	(1^+)		γ	13, 25, 38
3.48843 ± 0.25	1^+	44 ± 11 fsec	γ	13, 17, 25, 38
3.5260 ± 0.4	0^+	30 ± 15 fsec	γ	13, 17, 25
3.5871 ± 0.3	$(1, 2, 3)^+$	≤ 60 fsec	γ	3, 13, 17, 25, 38
3.6810 ± 0.4	$(1, 2, 3)^+$		γ	3, 13, 17, 25, 38
3.7611 ± 1.9			γ	13, 25, 38
3.9660 ± 1.5	1^+		γ	13, 17, 25, 38
4.0823 ± 0.4	$(1)^+$		γ	13, 17, 25, 38
4.1989 ± 2.7			(γ)	3, 25, 38
4.2077 ± 2.6			(γ)	3, 25, 38
4.2766 ± 0.5	$(1, 2, 3)^+$		γ	17, 25, 38
4.313 ± 3	$(0, 1)^+$		(γ)	25, 38
4.372 ± 4			(γ)	38
4.518 ± 4			(γ)	3, 38
4.5838 ± 3.0			(γ)	3, 25, 38
4.5922 ± 2.9			(γ)	3, 25, 38
4.7302 ± 2.9			(γ)	25, 38
4.7638 ± 2.7			(γ)	3, 25, 38
4.8916 ± 2.8			(γ)	3, 25, 38

Table 20.4 from (1978AJ03): Energy levels of ^{20}F [a] (continued)

E_x (MeV ± keV)	J^π; T	τ	Decay	Reactions
4.8982 ± 2.8			(γ)	3, 25, 38
5.0402 ± 3.1	$(0, 1, 2)^-$		(γ)	25, 38
5.0655 ± 3.1			(γ)	25, 38
5.131 ± 5			(γ)	38
5.2240 ± 2.8	$(0, 1, 2)^-$		(γ)	25, 38
5.279 ± 3	$(0, 1, 2)^-$		(γ)	25, 38
5.3171 ± 2.7			(γ)	25, 38
5.3445 ± 3.3			(γ)	25, 38
5.4131 ± 0.6			γ	17, 38
5.4503 ± 3.8			(γ)	25, 38
5.4554 ± 3.2			(γ)	25, 38
5.4634 ± 3.3			(γ)	25
5.556 ± 4			γ	17, 38
5.574 ± 6			(γ)	38
5.621 ± 3			(γ)	25, 38
5.713 ± 2			γ	17, 38
5.7640 ± 2.5			(γ)	25, 38
5.8104 ± 2.5			(γ)	25, 38
5.9361 ± 0.3	$(0, 1, 2)^-$		γ	17, 25, 38
6.0174 ± 0.3	$(0, 1, 2)^-$		γ	17, 25, 38
6.0446 ± 0.4			γ	17, 25, 38
6.163 ± 6			(γ)	38
6.205 ± 6			(γ)	38
6.240 ± 7			(γ)	38
6.300 ± 5			(γ)	38
6.337 ± 5			(γ)	38
6.370 ± 6			(γ)	38
6.407 ± 12			(γ)	38
6.441 ± 9			(γ)	38
6.480 ± 5			(γ)	38
6.519 ± 3	0^+; 2		γ	13, 37
6.588 ± 5			(γ)	38
6.6013 ± 0.3	0^+, 1^+		γ	17

Table 20.4 from (1978AJ03): Energy levels of ^{20}F [a] (continued)

E_x (MeV $\pm$ keV)	$J^\pi; T$	τ	Decay	Reactions
6.6269 ± 0.6	2^-	0.310 ± 0.020	γ, n	17, 18
6.6425 ± 0.6	(3, 4)	< 0.08	γ, n	17, 38
6.6474 ± 0.7	1^-	1.59 ± 0.10	γ, n	17, 18, 38
6.6933 ± 0.8	1^-	13.8 ± 0.8	γ, n	17, 18, 38
6.7660 ± 1.1		≤ 0.6	γ, n	17, 38
6.829			n	19
6.8566 ± 1.2	2	10 ± 2	γ, n	17, 19, 38
(6.858 ± 8)	1		γ, n	17
6.905 ± 8				38
6.9677 ± 1.2	1^-	5 ± 1	γ, n	17, 19
(7.0670 ± 1.2)	0^-	(2.4 ± 0.6)	γ, n	17, 19
7.076	(1^+)	24	n	18
7.166 ± 2	$2^{(+)}$	8 ± 1	γ, n	17, 18, 19
7.311	(1)	33	γ, n	17, 18
7.361	(1)	19	n	18, 19
7.410	(2^+)	10	γ, n	17, 18, 19
7.50	(2)	80	γ, n	17, 18
7.67	(2^+)	65	γ, n	17, 18, 19
7.79		140	n	18, 19
(7.831 ± 12)	1^-	(50 ± 10)	γ, n	17
7.988 ± 3	1	14 ± 2	γ, n	17
8.05 ± 100	$2^+; 2$			37
8.13		195	γ, n	17, 18, 19
8.163		15	n	19
8.421		27	n	19
8.50		140	n	18
8.728		≤ 30	n	18, 19
8.77		76	n	18
8.942		73	n	18, 19
9.165			n	19
9.521		110	n	19
9.654		100	n	18, 19
9.830		33	n	19

Table 20.4 from (1978AJ03): Energy levels of ^{20}F [a] (continued)

E_x (MeV $\pm$ keV)	J^π; T	τ	Decay	Reactions
9.85		120	n	18
(9.886 ± 10)			n	18
9.901		≤ 30	n	19
(9.929 ± 10)			n	18
(9.981 ± 10)			n	18
10.024 ± 10		150	n, α	18, 19, 24
10.10 ± 50			n, α	24
10.228 ± 10	0^-, 1	≈ 200	n, α	18, 24
10.480 ± 10		≈ 10	n, α	18, 24
10.641 ± 10	1, 2	70	n	18, 19
10.807 ± 10	0^-, 1	≈ 310	n, α	18, 24
10.988		190	n	19
(11.045 ± 10)		≈ 30	n	18
(11.130 ± 10)		< 25	n	18
(11.244 ± 10)		< 25	n	18, 19
(11.287 ± 10)			n	18
11.49 ± 50			n, α	24
12.0			n, α	24
12.2 ± 100			n, α	24
12.39			n, α	24
12.82			n, α	24
13.2			n, α	24
13.66			n, α	19, 24
14.0			n, α	24

[a] See also Tables 20.5 and 20.6.