

Table 17.17 from (1977AJ02): Energy levels of ^{17}F

E_x in ^{17}F (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
0	$\frac{5}{2}^+; \frac{1}{2}$	$\tau_{1/2} = 64.50 \pm 0.25$ sec	β^+	1, 2, 3, 4, 6, 7, 8, 9, 10, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30
0.49533 \pm 0.10	$\frac{1}{2}^+; \frac{1}{2}$	$\tau_m = 412 \pm 9$ psec	γ	4, 6, 7, 9, 10, 16, 17, 20, 21, 23, 25, 26, 29
3.104 \pm 3	$\frac{1}{2}^-; \frac{1}{2}$	$\Gamma = 19 \pm 1$	γ, p	7, 9, 10, 11, 16, 17, 27, 29
3.857 \pm 4	$\frac{5}{2}^-; \frac{1}{2}$	$\tau_m = 6 \pm 1$ fsec	γ, p	7, 9, 10, 11, 16, 17, 29
4.696 \pm 10	$\frac{3}{2}^-; \frac{1}{2}$	$\Gamma = 225$	p	7, 9, 11, 16, 27
5.103 \pm 10	$\frac{3}{2}^+; \frac{1}{2}$	1530	p	11, 20
5.212 \pm 11	$(\frac{9}{2}); \frac{1}{2}$			7, 9
5.521 \pm 10	$\frac{3}{2}^-; \frac{1}{2}$	68	p	7, 9, 11, 27
5.672 \pm 10	$\frac{7}{2}^-; \frac{1}{2}$	40	p	7, 9, 11
5.682 \pm 10	$\frac{1}{2}^+; \frac{1}{2}$	< 0.6	p	7, 9, 11
5.817 \pm 10	$\frac{3}{2}^+; \frac{1}{2}$	180	p	7, 11
6.036 \pm 10	$\frac{1}{2}^-; \frac{1}{2}$	30	p	7, 9, 11, 27
6.556 \pm 10	$\frac{1}{2}^+; \frac{1}{2}$	200	p	11
6.699 \pm 10	$\frac{3}{2}^-; \frac{1}{2}$	< 3	p	7, 9, 11
6.774 \pm 10	$\frac{3}{2}^+; \frac{1}{2}$	4.5	p	11
7.027 \pm 10	$\frac{5}{2}^-; \frac{1}{2}$	3.8	p	9, 11
7.356 \pm 10	$\frac{3}{2}^+; \frac{1}{2}$	10 ± 2	p, α	9, 11, 15
7.448 \pm 7		≤ 5	p	11
7.454 \pm 7		7 ± 2	p, α	11, 15
7.471 \pm 7		5 ± 2	p	11
7.479 \pm 10	$\frac{3}{2}^+; \frac{1}{2}$	795	p	11
7.546 \pm 10	$\frac{7}{2}^-; \frac{1}{2}$	30	p	11
7.75 \pm 20	$\frac{1}{2}^+; \frac{1}{2}$	179 ± 3	p, α	11, 15, 27
7.95 \pm 15		10 ± 3	p	11
8.01 \pm 20		50 ± 20	p, α	11, 15
8.075 \pm 10	$\frac{5}{2}^+; \frac{1}{2}$	100 ± 20	p, α	9, 11, 15, 27
8.2	$\frac{3}{2}^-; \frac{1}{2}$	700 ± 250	p, α	11, 15
8.383 \pm 5	$\frac{5}{2}^-; \frac{1}{2}$	11 ± 5	p, α	11, 15

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E_x in ^{17}F (MeV \pm keV)	J^π, T	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
8.416 \pm 10	$\frac{7}{2}^+; \frac{1}{2}$	45 \pm 10	p, α	11, 15, 27
8.75 \pm 30	$\frac{5}{2}^+; \frac{1}{2}$	170 \pm 30	p, α	11, 15
8.76	$\frac{3}{2}^+; \frac{1}{2}$	90 \pm 20	p	11
8.97	$\frac{7}{2}^-; \frac{1}{2}$	165 \pm 30	p, α	11, 15
9.27	$\frac{3}{2}^-; \frac{1}{2}$	140 \pm 30	p, α	11, 15
9.91	$\frac{9}{2}^+; \frac{1}{2}$	90 \pm 30	p, α	11, 15
10.04 \pm 20	$\frac{7}{2}; \frac{1}{2}$	280 \pm 100	p	11
10.22 \pm 20		250 \pm 80	p, α	15
10.40 \pm 20	$(\frac{5}{2}^+); \frac{1}{2}$	160 \pm 40	p	11
10.499 \pm 15	$\frac{7}{2}^-; \frac{1}{2}$	165 \pm 25	p, α	11, 15
10.79 \pm 20		120 \pm 40	p	11
10.91 \pm 100	$\frac{1}{2}^-$	560 \pm 100	p	11
10.95 \pm 20		190 \pm 50	p, α	11, 15
11.1931 \pm 2.3	$\frac{1}{2}^-; \frac{3}{2}$	0.20 \pm 0.04	γ , p, α	9, 10, 11, 15, 27
11.43 \pm 20		240 \pm 50	p, α	11, 15
11.58 \pm 40		160 \pm 30	p	11
12.00 \pm 20		120 \pm 40	p, α	11, 15
12.25 \pm 20	$\frac{3}{2}^-$	300 \pm 30	p	11
12.355 \pm 10	$\frac{1}{2}^-$	190 \pm 20	p	11
\approx 12.50	$\frac{7}{2}^-$	\approx 660	p	11
12.550 \pm 1.4	$\frac{3}{2}^-; \frac{3}{2}$	2.83 \pm 0.12	γ , p, α	9, 10, 11, 15
13.061 \pm 4	$\frac{5}{2}^-; \frac{3}{2}$	2 \pm 1	γ , p, α	9, 10, 11, 15
13.080 \pm 4	$(\frac{1}{2}^+); \frac{3}{2}$	2 \pm 1	p, α	11, 15
13.13	$\frac{5}{2}^-$	520 \pm 50	p	11
13.781 \pm 4	$\frac{5}{2}^+; \frac{3}{2}$	12 \pm 5	p, α	11, 15
14.00 \pm 50	$\frac{7}{2}^-$	260 \pm 30	p	11
14.176 \pm 6	$\frac{3}{2}^-; \frac{3}{2}$	30 \pm 5	γ , p	10, 11
14.3040 \pm 3.3	$\frac{7}{2}^-; \frac{3}{2}$	19.3 \pm 1.6	γ , p, α	10, 11, 15
14.38 \pm 50	$\frac{5}{2}^-$	610 \pm 50	p	11
14.71 \pm 100	$\frac{1}{2}^-$	470 \pm 100	p	11

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E_x in ^{17}F (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
14.809 \pm 20	$\frac{1}{2}^+$	190 \pm 25	p	11
15.6		\approx 550	p	11
(16.9)	$\frac{7}{2}^-$		γ , p	10
17.1	$\frac{5}{2}^-$	1500	p	11
(18.0)	$\frac{7}{2}^-$		γ , p	10
19.42 \pm 50	$\frac{5}{2}^+$	\approx 300	γ , ^3He , α	4, 5
20.25 \pm 50	$\frac{7}{2}^-$	\approx 350	γ , ^3He , α	4, 5
20.9	$\frac{9}{2}^+$	600	p	11
21.01 \pm 50	$\frac{1}{2}^+$	\approx 280	γ , ^3He	4
21.8	$(\frac{9}{2}^+)$	400	p	11
22		\approx 5000	γ , p, α	10, 15
22.7	$\frac{7}{2}^+$	600	p	11
23.8	$\frac{7}{2}^+$	600	p	11
25.4	$\frac{7}{2}^-$	1500	p, α	11, 15
27.2	$\frac{5}{2}^-$	1500	p	11
28.9	$\frac{5}{2}^+$	2000	p	11