

$^{19}\text{F}(\text{t,p}),(\text{t,p}\gamma)$ **1970Wa36**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 127, 1 (2015)	15-Jan-2015

$^{19}\text{F}(\text{t,p}\gamma)$ E(t)=2.4-3.5 MeV. Doppler Shift measurements.

 ^{21}F Levels

E(level) [†]	T _{1/2}	L [‡]	E(level) [†]	L [‡]	E(level) [†]	L [‡]
0.0		2	3640 5	(3)	5029 5	
279.92 6	6.1 ns 2	0	3966 5		5079 5	2
1100.9 20	0.30 ps 6		3996 5		5350 20	
1730.13 25	0.05 ps 4		4064 5		5486 20	
1754.89 5	>1.0 ps		4172 5		5566? 20	
2041.1	<35 fs		4451 5		5592 20	2
2070.0 20	55 fs 21		4582 5	2	5787 20	
3460 5	<0.7 ps	2	4669 5		5881 20	
3518 5	<0.7 ps	2	4924 5			

[†] Values with $\Delta E=5$ keV are from [1962Hi01](#), corrected for systematic differences by [1981Al07](#). Values with $\Delta E=20$ keV are from [1964Ho07](#).

[‡] From [1964Ho07](#).

 $\gamma(^{21}\text{F})$

E _{γ} [†]	I _{γ} [†]	E _i (level)	E _f	E _{γ} [†]	I _{γ} [†]	E _i (level)	E _f
279.92 6	100	279.92	0.0	2041.1 20	76 6	2041.1	0.0
821.0 20	100	1100.9	279.92	2070.9 20	100	2070.0	0.0
1450.0 20	18 4	1730.13	279.92	2236	100	3966	1730.13
1729.6 10	82 4	1730.13	0.0	3180	30 12	3460	279.92
1730	50 20	3460	1730.13	3238	50 20	3518	279.92
1754.9 7	100	1754.89	0.0	3460	20 8	3460	0.0
1759.0 15	24 6	2041.1	279.92	3518	50 20	3518	0.0
1880	100	3640	1754.89				

[†] From coincidence measurements for E>3 MeV ([1970Wa36](#)).

$^{19}\text{F}(\text{t,p}),(\text{t,p}\gamma)$ 1970Wa36**Level Scheme**

Intensities: Type not specified

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$

