

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 110,1691 (2009)	1-Feb-2008

$Q(\beta^-)=1.342 \times 10^4$ 9; $S(n)=4.27 \times 10^3$ 11; $S(p)=1.443 \times 10^4$ 14; $Q(\alpha)=-1.631 \times 10^4$ 13 2012Wa38

Note: Current evaluation has used the following Q record 1.338E4 104.36E3 121.51E4 3 -1.64E4 14 2003Au03.
tof spectrometer at the LAMPF accelerator (1995ReZZ,1997Au04).

Particle stability established in $^{232}\text{Th}(^{22}\text{Ne},X)$ (1970Ar09).

^{25}F Levels

Cross Reference (XREF) Flags

A $^1\text{H}(^{27}\text{F},^{25}\text{F}),\text{Be}(^{36}\text{S},X)$

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	$5/2^+$	80 ms 9	A	$\% \beta^- = 100$; $\% \beta^- n = 23.1$ 45 $T_{1/2}$: Weighted average of 90 ms 9 (2005Pa74) and 70 ms 10 (2001Pe14). Other values : 50 ms 6 (1999Re16) and 59 ms 40 (1991Re02). $\% \beta^- n$: From 2005Pa74. Other values: 15 10 (1991Re02), 14 5 (1999Re16). J^π : From longitudinal and transverse momentum distributions and cross sections in $^{25}\text{C}(^{12}\text{C},^{13}\text{C})$ E=43-68 MeV (2004Sa14).
3300	$(9/2^+)$		A	
3700	$(7/2^+)$		A	
4430?†			A	
5450?†			A	

† Placement of the 4430 and 5450 levels is tentative.

$\gamma(^{25}\text{F})$

$E_i(\text{level})$	J_i^π	E_γ	E_f	J_f^π
3300	$(9/2^+)$	3300	0.0	$5/2^+$
3700	$(7/2^+)$	3700	0.0	$5/2^+$
4430?		727 22	3700	$(7/2^+)$
5450?		≈ 1000 †	4430?	
		1753 53	3700	$(7/2^+)$

† Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme-----► γ Decay (Uncertain)