^{25}F β^-n decay 1999Re16

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia, Anagha Chakraborty	NDS 186, 2 (2022)	31-Mar-2022

Parent: ^{25}F: E=0; J^π=(5/2$^+$); $T_{1/2}$=80 ms *9*; Q(β^-n)=9.21×10^3 *10*; %β^-n decay=23.1 *45*
^{25}F-$T_{1/2}$: From ^{25}F Adopted Levels (2009Fi05). Other: 75 ms *10* (2015Bi05).
^{25}F-%β^-n decay: From ^{25}F Adopted Levels (2009Fi05). Other: 19.5 *50* (2015Bi05).
Produced by Ta(^{36}S,x) E=2.8 GeV. Magnetic spectrometer (LISE3). tof, energy loss in Si, $\beta\gamma$ coincidence.

^{24}Ne Levels

E(level)	J^π	$T_{1/2}$	Comments
0	0$^+$	3.38 min *2*	$T_{1/2}$: From Adopted Levels.
1981.6 *4*	2$^+$		

γ(^{24}Ne)

E_γ	I_γ †	E_i(level)	J_i^π	E_f	J_f^π	Comments
1981.6 *4*	11 *3*	1981.6	2$^+$	0	0$^+$	E_γ: From Adopted Gammas. I_γ: Measured value per 100 parent decay in 1999Re16.

† Absolute intensity per 100 decays.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays