
 ^{125}Sb IT decay (25 μs) 2010Re01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Katakura	NDS 112, 495 (2011)	1-Jan-2010

Parent: ^{125}Sb : $E=1969+x$; $J^\pi=(19/2^-)$; $T_{1/2}=25 \mu\text{s}$ 4; %IT decay=?

2010Re01: Isomer of ^{125}Sb formed in ^{232}Th fission by 45 MeV ^6Li ; Emitted particles and fission fragments were detected in the Silicon Telescope Array for Reaction Studies (STARS); Measured γ , $\gamma\gamma$, g(t).

 ^{125}Sb Levels

E(level)	$J^\pi^\dagger$	$T_{1/2}$
0.0	$7/2^+$	
1067	$9/2^+$	
1089	$11/2^+$	
1969	$15/2^-$	
1969+x	$(19/2^-)$	25 μs 4

[†] From a comparison with neighboring Sb isotopes, excepting 0.0, 1067, 1089 and 1969 keV levels whose spin-parities are from Adopted Levels.

 $\gamma(^{125}\text{Sb})$

E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f
880	1969	$15/2^-$	1089	$11/2^+$
902	1969	$15/2^-$	1067	$9/2^+$
1067	1067	$9/2^+$	0.0	$7/2^+$
1089	1089	$11/2^+$	0.0	$7/2^+$

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Decay Scheme

%IT=?

