^{125}Ag IT decay (80 ns) 2013La11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	20-Aug-2015

Parent: ^{125}Ag: E=859.9+x *14*; $T_{1/2}$=80 ns *17*; %IT decay=100.0

Reactions: ^{9}Be(^{136}Xe,Xγ),(^{238}U,Fγ).

2013La11: facility: GSI, SIS-18 synchrotron. Beams: ^{136}Xe and ^{238}U at 750 MeV/nucleon. Targets: 1 and 4 g/cm^2 Be. Detectors: FRS, ionization chambers, multiwire chambers, scintillation detectors, RISING multidetector array comprising 105 HPGe detectors, mounted in 15 composite Cluster detectors without anti-Compton shields. Measured: tof, ΔE, Bρ, Eγ, Iγ, γ(t), $\gamma\gamma$, $\gamma\gamma$(t), level half-lives.

^{125}Ag Levels

E(level)†	$T_{1/2}$	Comments
0+x		Additional information 1.
310.6+x *5*		
525.6+x *7*		
712.9+x *9*		
859.9+x *14*	80 ns *17*	%IT=100 $T_{1/2}$: from γ(t) (2013La11).

† From Eγ data.

γ(^{125}Ag)

E$_\gamma$	I$_\gamma$†	E$_i$(level)	E$_f$
x74.2 *10*	8 *1*		
x129.3 *10*	≤1		
147.0 *10*	≤1	859.9+x	712.9+x
x155.0 *10*	≤1		
187.3 *5*	3.9 *13*	712.9+x	525.6+x
215.0 *5*	8 *4*	525.6+x	310.6+x
310.6 *5*	6.0 *12*	310.6+x	0+x

† Values are relative to 100 for 714.1γ in the decay of 0.491−μs isomer.

x γ ray not placed in level scheme.

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Decay Scheme

Intensities: Relative I_γ

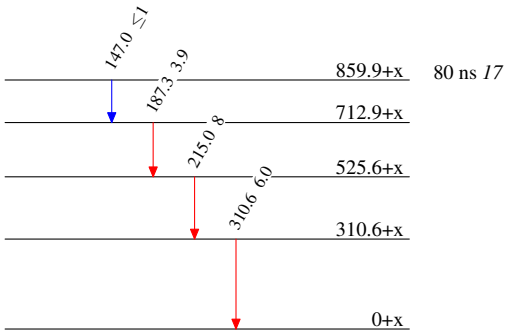
%IT=100.0

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{125}_{47}Ag_{78}$