

$^{114}\text{Cs}$   $\epsilon\alpha$  decay 1985Ti02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev		NDS 113, 1315 (2012)	1-Aug-2011

Parent:  $^{114}\text{Cs}$ :  $E=0$ ;  $J^\pi=(1^+)$ ;  $T_{1/2}=0.57$  s 2;  $Q(\epsilon\alpha)=1.53\times 10^4$  3;  $\% \epsilon\alpha$  decay=0.19 3

Parent  $^{114}\text{Cs}$  nuclide was produced via  $^{63}\text{Cu}(^{58}\text{Ni},2p5n)$  reaction.  $E(^{58}\text{Ni})=290$  MeV beam was provided by heavy-ion accelerator UNILAC at GSI. A  $4.2$  mg/cm<sup>2</sup> thick  $^{63}\text{Cu}$  target was used. Reaction products were mass-separated using online-mass separator. Two surface-barrier detector telescopes were used for particle identification.  $\gamma$ -rays were detected using a Ge(Li) detector. A tape-transport system was used to bring mass-separated samples from the collection position of the central beam line. Measured:  $E_\gamma$ ,  $I_\gamma$ .

 $^{110}\text{Te}$  Levels

$E(\text{level})^\dagger$	$J^\pi^\dagger$
0	$0^+$
657.2	$2^+$

$^\dagger$  From Adopted Levels.

 $\gamma(^{110}\text{Te})$ 

$E_\gamma^\dagger$	$I_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Comments
657.2 3	17 8	657.2	$2^+$	0	$0^+$	$I_\gamma$ : particle-gamma coincidence intensity from 1985Ti02.

$^\dagger$  From adopted gammas.

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Intensities: Type not specified

