

$^{130}\text{In}$  IT decay (3.1  $\mu\text{s}$ ) 2004Sc42

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Balraj Singh	ENSDF	31-May-2008

Parent:  $^{130}\text{In}$ : E=388.8 2;  $J^\pi=3^+$ ;  $T_{1/2}=3.1 \mu\text{s}$  3; %IT decay=100.0

2004Sc42:  $^{130}\text{In}$  isomer produced in thermal neutron induced fission of  $^{241}\text{Pu}$  followed by separation of fission fragments by LOHENGRIN mass separator. Measured  $E_\gamma$ ,  $I_\gamma$ ,  $\gamma\gamma$  with two Ge detectors: one Clover detector and one triple cryostat on the Miniball array. The fission fragments were detected in a  $\Delta E$ -E gas detector to achieve good mass resolution.

 $^{130}\text{In}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	$T_{1/2}$	Comments
0.0	$1^{(-)}$		Configuration= $\pi g_{9/2}^{-1} \otimes \nu h_{11/2}^{-1}$ .
388.8 2	$(3^+)$	3.1 $\mu\text{s}$ 3	Configuration= $\pi g_{9/2}^{-1} \otimes \nu d_{3/2}^{-1}$ .

<sup>†</sup> From 'Adopted Levels'.

 $\gamma(^{130}\text{In})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
388.8 2	388.8	$(3^+)$	0.0	$1^{(-)}$

 $^{130}\text{In}$  IT decay (3.1  $\mu\text{s}$ ) 2004Sc42Decay Scheme

%IT=100.0

