

$^{137}\text{Te}$   $\beta^-$ -n decay 1985Sa15

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 152, 331 (2018)	1-Apr-2018

Parent:  $^{137}\text{Te}$ :  $E=0.0$ ;  $J^\pi=(7/2^-)$ ;  $T_{1/2}=2.49$  s 5;  $Q(\beta^-n)=2170$  14;  $\% \beta^-n$  decay=2.99 16

1985Sa15:  $^{137}\text{Te}$  activity from  $^{235}\text{U}(n,f)$ . Fission products separated with the on-line mass separator SIRIUS. Measured  $E_\gamma$ ,  $\gamma\gamma$ ,  $\beta\gamma$  coincidences using two Ge(Li) detectors and a  $\beta$  telescope consisting of a thin  $\Delta E$  plastic detector and a thick NE102A plastic scintillator.

Others: 1975As04, 1993Ru01 both measurements of delayed neutrons.

 $^{136}\text{I}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>
0.0	(1 <sup>-</sup> )
87.3	(2 <sup>-</sup> ,1 <sup>-</sup> ,0 <sup>-</sup> )
222.3	
332.6	(0 <sup>-</sup> ,1 <sup>-</sup> )
578.6	(0,1,2)
630.7	(0 <sup>-</sup> ,1)
738.2	(0,1,2)

<sup>†</sup> From  $E_\gamma$ .

<sup>‡</sup> From the Adopted Levels.

 $\gamma(^{136}\text{I})$ 

$E_\gamma$ <sup>†</sup>	$E_i$ (level)	$J_i^\pi$	$E_f$	$J_f^\pi$
87.3	87.3	(2 <sup>-</sup> ,1 <sup>-</sup> ,0 <sup>-</sup> )	0.0	(1 <sup>-</sup> )
135.0	222.3		87.3	(2 <sup>-</sup> ,1 <sup>-</sup> ,0 <sup>-</sup> )
332.6	332.6	(0 <sup>-</sup> ,1 <sup>-</sup> )	0.0	(1 <sup>-</sup> )
578.6	578.6	(0,1,2)	0.0	(1 <sup>-</sup> )
630.7	630.7	(0 <sup>-</sup> ,1)	0.0	(1 <sup>-</sup> )
738.2	738.2	(0,1,2)	0.0	(1 <sup>-</sup> )

<sup>†</sup> From Figure 9 of 1985Sa15.

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## Decay Scheme

