

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 108,2173 (2007)	1-Oct-2006

$Q(\beta^-)=1.02\times 10^4$  *syst*;  $S(n)=2.0\times 10^3$  *syst*;  $Q(\alpha)=-8.3\times 10^3$  *syst*    [2012Wa38](#)  
 Note: Current evaluation has used the following Q record 9950    SY1880    *syst*    [2003Au03](#).  
 $\Delta Q(\beta^-)=720, \Delta S(n)=780$  (*syst*, [2003Au03](#)).  
 $Q(\beta^-n)=6500$  670 (*syst*, [2003Au03](#)).  
[1998Do08](#), [1994Be24](#):  $^{137}\text{Sn}$  produced by  $\text{Pb}(^{238}\text{U}, \text{F})$  reaction.  
[2002Sh08](#) (also [2001Sh12](#)): isotope produced by  $\text{U}(p, X)$   $E=1$  GeV with isotopic and isobaric selectivity by the use of a resonance ionization laser ion source and mass spectroscopy.

 $^{137}\text{Sn}$  Levels

E(level)	$T_{1/2}$	Comments
0	190 ms 60	$\% \beta^- = 100$ ; $\% \beta^- n = 58$ 15 ( <a href="#">2002Sh08</a> ) $J^\pi$ : from systematics: $5/2^-$ ( <a href="#">1997Au04</a> ), $3/2^-$ ( <a href="#">1997Mo25</a> ). $T_{1/2}$ : $T_{1/2} \leq 470$ ms from study of $\beta^- n$ . $T_{1/2} = 190$ ms 60, $\% \beta^- n = 58$ 15 from extrapolation of decay properties of $^{133}\text{Sb}$ , $^{135}\text{Sb}$ ( <a href="#">2002Sh08</a> ).