
Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, D. Symochko(a), M. Fadil(b), and J. K. Tuli		NDS 112,1949 (2011)	1-Jun-2010

$Q(\beta^-)=8.4\times 10^3$ syst; $S(n)=4.0\times 10^3$ syst; $Q(\alpha)=-3.9\times 10^3$ syst [2012Wa38](#)

Note: Current evaluation has used the following Q record 8.1E+3 SY4000 syst [2011AuZZ](#).

The uncertainties to be associated with these estimated Q values are as follows: $\Delta Q(\beta^-)=7$, $\Delta S(n)=7$; $Q(\beta^-n)=5300$ 6 (systematics) [2011AuZZ](#).

Values in [2003Au03](#): $Q(\beta^-)=8.3\times 10^3$ 7 (systematics), $S(n)=3.9\times 10^3$ 7 (systematics), $Q(\beta^-n)=5.0\times 10^3$ 6 (systematics).

Produced and identified in [1994Be24](#), [1998Do08](#): fully stripped isotope produced in $\text{Pb}(^{238}\text{U},f)$ reaction at 750 MeV/nucleon.

Identified by event-by-event measurements of energy loss, ToF and magnetic rigidity.

Theory: half-life calculations ([2005Ni02,2005Pa71,2007Ma09](#)), structure calculations ([2007Ji05](#)).

 ^{142}Te Levels

E(level)	J^π	Comments
0?	0^+	% β^- =? % β^-n =?