

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. Rodionov and G. Shulyak		NDS 136, 163 (2016)	14-Jul-2016

$Q(\beta^-)=7610$  50;  $S(n)=4533$  27;  $S(p)=14.31\times 10^3$  SY;  $Q(\alpha)=-4010$  SY [2012Wa38](#)

$\Delta S(p)=500$  (syst, [2012Wa38](#)).

$\Delta Q(\alpha)=500$  (syst, [2012Wa38](#)).

$Q(\beta^-n)=4030$  27 ([2012Wa38](#)).

Produced and identified by [1989Bo03](#) ([1988NeZZ](#)), proton-induced spallation in a molten-La or by fission of U targets, collinear laser spectroscopy, hfs and isotope shift studies, ISOLDE facility; see [2013Ka01](#).

Measurement of atomic mass: [2009Ne11](#); ISOLTRAP.

$\beta^-$  decay and delayed neutron emission have been measured by [2003Be05](#) at the PSB-ISOLDE facility,  $\text{UC}_2$ /graphite target,  $E(p)=1.0, 1.4$  GeV.

 $^{146}\text{Xe}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0.0	$0^+$	146 ms 6	$\% \beta^- = 100$ ; $\% \beta^- n = 6.9$ 15 ( <a href="#">2003Be05</a> ) $T_{1/2}$ : from timing of $\beta^-$ -delayed neutrons ( <a href="#">2003Be05</a> ). Isotope shift measurements: <a href="#">1989Bo03</a> , <a href="#">1988NeZZ</a> (the same group) relative to $^{136}\text{Xe}$ ; $\delta \langle r^2 \rangle = 1.100$ fm <sup>2</sup> 5 [100], square brackets give the errors due to uncertainties in the SMS and the electronic factor F.