Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. Tamura	NDS 108,455 (2007)	30-Sep-2006

Q(β^-)=9.51×10^3 *4*; S(n)=4.77×10^3 *4*; S(p)=1.221×10^4 *4*; Q(α)=−8.64×10^3 *5* 2012Wa38

Note: Current evaluation has used the following Q record 9500 syst 4640 SY12260 syst-8520 syst 2003Au03.

ΔQ_{β^-}=210 keV, ΔS(n)=250 keV, ΔS(p)=540 keV, ΔQ(α)=540 keV from atomic mass systematics (2003Au03).

1971Fo22: ^{235}U(n,f), on-line ms; $T_{1/2}$=1.5 s *5*, γ spectra.

1978Sh03: ^{235}U(n,f), on-line ms; ^{122}Ag; semi γ, semi-semi $\gamma\gamma$-coin; deduced $T_{1/2}$ and established the decay scheme.

1983Re05:^{235}U(n,f) on-line ms; measured $T_{1/2}$, β-delayed neutron spectra, deduced P_n.

1995Fe12: U(p,f) E(p)=1 GeV, ISOLDE, on-line mass separation by laser ion source, from neutron counting, observed β-delayed neutron emitter.

2000Kr18: U(p,f) E(p)=1 GeV, ISOLDE; measured γ spectra as a function of laser frequency, observing hyperfine splitted spectra associated with a low-spin and a high-spin isomers using isomer-specific laser ionization technic. Identified isomeric states J=(1$^-$) and J=(9$^-$), both β^--delayed neutron and γ decay.

2006Mo07: Activity was produced by fragmentation of ^{136}Xe$^{+50,51}$ (E=121.8 MeV/nucleon) on Be. Particle identification was performed. The products were passed to a mass spectrometer, position sensitive detector, stacked Si detectors and tof arrangement. β-delayed neutrons were detected within the neutron emission ratio observer; Implantation and decay events were time stamped and correlated. Deduced $T_{1/2}$ and P_n.

The order of 0.529-s level (J=(3$^+$)) and 0.55-s level (J=(1$^-$)) is not well-established.

^{122}Ag Levels

E(level)	J$^\pi$	$T_{1/2}$	Comments
0.0	(3$^+$)	0.529 s *13*	%β^-=99.8; %β^-n=0.186 *10* %β^-n from neutron counting (1983Re05). other: %β^-n≤1.3 from βn coincidence (2006Mo07). E(level): Assumed as g.s. J$^\pi$: log *ft*≈5.4 to 2$^+$ and 5.9 to (4$^+$) suggest (3$^+$). $T_{1/2}$: weighted average of 0.520 s *14* (1995Fe12) and 0.57 s *3* (1983Re05); others: 0.48 s *8* from γ multiscaling (1978Sh03); 0.357 s *24* for a mixed source of gs and msec isomers, from β decay curve (2006Mo07).
0.0+x	(1$^-$)	0.55 s *5*	%β^-=?; %IT=?; %β^-n=? J$^\pi$: from hyperfine splitting (2000Kr18). $T_{1/2}$: from beta-delayed neutron decay curve as a function of laser frequency (2000Kr18); other: 0.357 s *24* for a mixed source of gs and msec isomers (2006Mo07).
80 *50*	(9$^-$)	0.20 s *5*	%β^-=?; %β^-n=? E(level): Q_β systematics: E(high spin)-E(gs)=80 *50* in NUBASE (2003Au02). J$^\pi$: from hyperfine splitting (2000Kr18). $T_{1/2}$: from beta-delayed neutron decay curve as a function of laser frequency (2000Kr18); other: 0.357 s *24* for a mixed source of gs and msec isomers (2006Mo07).