Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Janos Timar and Zoltan Elekes, Balraj Singh	NDS 121, 143 (2014)	31-May-2014

Q(β^-)=11300 *SY*; S(n)=5380 *SY*; S(p)=14630 *SY*; Q(α)=−12430 *SY* 2012Wa38
Estimated (2012Wa38) uncertainties: 360 for Q(β^-), 420 for S(n), 670 for S(p), 590 for Q(α).
S(2n)=9770 *360*, Q(β^-n)=6960 *300* (syst,2012Wa38). S(2p)=31890 (theory,1997Mo25).
2000Kr18, 1998KaZM: ^{129}Ag produced through spallation of Uranium using 1 GeV p beam at ISOLDE-CERN facility, Laser isotope separator. Measured β^-n, proportional counter, observed g.s. decay and a possible isomer.
Structure calculations:
2007Cu03: calculated $T_{1/2}$, Q-value, G-T strength distributions, S(2n), delayed one-neutron emission probability.
2003Mo09: calculated $T_{1/2}$, discussed astrophysical r-process.
2003Bo06: calculated $T_{1/2}$.
2003Br19: calculated level-mixing features, β-decay $T_{1/2}$.
Additional information 1.

^{129}Ag Levels

E(level)	J^π	$T_{1/2}$	Comments
0	$(9/2^+)$	46 ms *+5−9*	%β^-=100; %β^-n>0 J^π: expected configuration=$\pi g_{9/2}$ (2000Kr18). 2012Au07 propose $7/2^+$ from systematics; $9/2^+$ in predictions by 1997Mo25. $T_{1/2}$: from decay curve for delayed neutrons (2000Kr18). Theoretical %β^-n=12.1 (1997Mo25), 11.8, 9.0 (2002Pf04).
0+x?	$(1/2^-)$	≈160 ms	%β^-=?; %β^-n>0 E(level): x=20 *20* (from syst, 2012Au07). $T_{1/2}$: crude estimate from composite decay curve of delayed neutrons from ^{129}Ag g.s. and ^{129}In (2000Kr18). Other: 10 ms from systematics (2012Au07). J^π: expected configuration=$\pi p_{1/2}$ (2000Kr18); also $1/2^-$ from systematics (2012Au07).