^{50}Ar β^- **decay (106 ms)**   **2003We09,2012We08**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 157, 1 (2019)	15-Apr-2019

Parent: ^{50}Ar: E=0.0; J^π=0$^+$; T$_{1/2}$=106 ms 6; Q(β^-)=12400 SY; %β^- decay=100.0

^{50}Ar-T$_{1/2}$: From ^{50}Ar Adopted Levels.

^{50}Ar-Q(β^-): 12400 500 (syst, 2017Wa10).

^{50}Ar-%β^- decay: %β^-=100, %β^-n=37 7 (2012We08); earlier value of %β^-n from the same group was 35 10 (2003We09).

2003We09,2012We08: ^{50}Ar produced in U(p,X) at E=1.4 GeV. Ionized neutron-rich noble-gas isotopes were extracted and mass separated at ISOLDE, CERN. Measured β^- and neutron spectra, and β^--coin. Deduced half-life, %β^-n.

Other:

1988GuZV: ^{181}Ta(^{48}Ca,X) E=2.64 GeV. Observed projectile-like fragments (29≤A≤51) at 0°; magnetic spectrometer, Si(Li)) ΔE-E telescope, TOF. Z identified by telescope, A by total energy, TOF and magnetic rigidity.

^{50}K Levels

E(level)	J^π
0	0$^{(-)}$