^{70}Zn $2\beta^-$ decay 2011Be39

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan	NDS 136, 1 (2016)	1-Jul-2016

Parent: ^{70}Zn: E=0; $J^\pi=0^+$; $T_{1/2}\geq 3.8\times10^{18}$ y; $Q(2\beta^-)=997.1$ *21*; $\%2\beta^-$ decay=100.0

^{70}Zn-$T_{1/2}$: From 2011Be39 for $2\nu\beta\beta$ mode at 90% confidence level (C.L.). Other: 2.3×10^{17} from 2009Be27.

^{70}Zn-$Q(2\beta^-)$: From 2012Wa38.

2011Be39, 2009Be27: Measured half-life for double β decay using $ZnWO_4$ crystal scintillators with a total mass of 984 g fixed in polystyrene light- guide and photomultiplier tubes. The detector installed in low background DAMA/R&D setup at the Gran Sasso National Lab of INFN. Measured $\beta(\gamma)$ events.

^{70}Ge Levels

E(level)	J^π
0	0^+