^{67}Kr ε decay (7.4 ms) 2016Go26

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	18-Mar-2022

Parent: ^{67}Kr: E=0; $T_{1/2}$=7.4 ms *30*; Q(ε)=16980 *SY*; %ε+%$β^+$ decay=63 *14*

^{67}Kr-$T_{1/2}$: From ^{67}Kr Adopted Levels, taken from 2016Go26.

^{67}Kr-Q(ε): 16980 *520* (syst,2021Wa16).

^{67}Kr-%ε+%$β^+$ decay: %EC+%B+=63 *14* for decay of ^{67}Kr, from 100−(%2p), where %2p=37 *14* for ^{67}Kr is measured by 2016Go26 (also 2020Gi02).

2016Go26, 2016Bl05, 2020Gi02 (also 2019Go34,2017GoZT): ^{67}Kr produced at RIBF-RIKEN facility in ^{9}Be(^{78}Kr,X) reaction at E=345 MeV/nucleon, followed by selection of ions using BigRIPS separator and Zero degree spectrometer ZDS, and implanted in a wide range silicon-strip stopper array for ion and β particle detection system WAS3ABi, consisting of three highly-segmented 1 mm thick double-sided silicon detectors, a stack of ten segmented 1 mm thick single-sided silicon strip detectors. The γ rays were detected by EURICA array of 84 HPGe detectors surrounding WAS3ABi.

No information is available for γ-rays from the decay of ^{67}Kr to ^{67}Br.

^{67}Br Levels

E(level)	Comments
0?	Assuming that decay of ^{67}Kr probably populates the g.s. of ^{67}Br.