Electron-capture Branch of $^{100}\text{Tc}$ SKY SJUE, ALEJANDRO GARCIA, University of Washington, IRSHAD AHMAD, Argonne National Lab, DAN MELCONIAN, Texas A&M University, TOMMI ERONEN, IAIN MOORE, HEIKKI PENTTILA, JUHA AYSTO, University of Jyväskylä, JYFLTRAP COLLABORATION — We present a measurement of the electron-capture branch of $^{100}\text{Tc}$ performed at the JYFLTRAP facility in Jyväskylä, Finland. The electron-capture branch of $^{100}\text{Tc}$ determines the solar neutrino absorption cross section of $^{100}\text{Mo}$ and provides an important test of nuclear-structure calculations for double-beta decay. We discuss implications of this result for theoretical double-beta decay rates from $^{100}\text{Mo}$ to the ground and excited states of $^{100}\text{Ru}$.

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