

Abstract Submitted
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Measuring Neutrinoless Double Electron Capture with ^{124}Xe in Xenon Experiments¹ JASON SPAANS, DONGMING MEI, CHAO ZHANG, The University of South Dakota, CUBED COLLABORATION — The neutrinoless double-electron capture ($0\nu e^- e^-$ capture) involves Majorana neutrinos and it is an alternative decay mode in $\beta\beta$ decay. It would violate lepton number conservation and mark physics beyond the Standard Model if it is observed. This paper will discuss the possible signature and sensitivity for measuring $0\nu e^- e^-$ capture with ^{124}Xe in Xenon Experiments.

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