

Abstract Submitted
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SBND Source Calibration System Test at LArIAT IVAN LEP-ETIC, Illinois Inst of Tech, JONATHAN ASAADI, University of Texas at Arlington, BRYCE LITTLEJOHN, Illinois Inst of Tech — Fermilab's Short Baseline Neutrino Program aims to use Liquid Argon Time Projection Chambers (LArTPCs) to study GeV-scale accelerator neutrinos produced by the Booster Neutrino Beam. While work has already begun in studying LArTPC response to high-energy events, knowledge of detector response in the 1-50 MeV scale, the range in which supernova and solar neutrinos exist, is lacking. To address this problem, development and testing of a LAr-deployable (n,gamma) radioactive source calibration system has begun utilizing the LArIAT LArTPC at Fermilab. In this talk, I will present preliminary results of test source deployments at LArIAT.

Ivan Lepetic
Illinois Inst of Tech

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