

Abstract Submitted
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Aerogel Cherenkov Detector For The LArIAT Experiment BRANDON SOUBASIS, Texas State University, WILL FLANAGAN, JOHN CESAR, KAROL LANG, RAMON SALAZAR, The University of Texas at Austin, LARIAT COLLABORATION — The Liquid Argon In A Testbeam (LArIAT) experiment at the Fermilab Test Beam Facility (FTBF) will allow for critical measurements of interest to all current and proposed liquid argon detectors. Our group has designed and constructed prototypes of an aerogel Cherenkov detector to be placed along the beamline. This detector will allow us to separate incoming muons and pions in the momentum range of most interest to the LArIAT experiment. This talk will focus on the detector design, PMT calibration, prototype construction, and preliminary measurements using cosmic muons.

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