

LArIAT in 10 Minutes

Tuesday, 9 July 2024 17:30 (15 minutes)

The LArIAT (Liquid Argon In a Testbeam) experiment utilizes a LArTPC (Liquid Argon Time Projection Chamber) exposed to a tertiary beam of charged particles at Fermilab's Test Beam Facility. LArIAT has collected large samples of pions, muons, electrons, protons, and kaons in the momentum range of $\sim 300\text{-}1400$ MeV/c. The scientific purpose of the LArIAT experiment is to investigate the interaction of neutrino products in argon to improve LArTPC detectors. This technology is the leading method of neutrino detection and is used in experiments such as DUNE, MicroBooNE, SBND, and ICARUS. The work presented here will provide an overview of the experiment as well as highlight several recent results.

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Session Classification: Closing Session