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Results from the Liquid Argon In A Testbeam (LArIAT) experiment

Thursday, 8 June 2017 18:00 (2 hours)

The Liquid Argon In A Testbeam (LArIAT) is a liquid argon time projection chamber (LArTPC) positioned in the Fermilab charged particle beamline whose primary purpose is to study the response of LArTPC's to charged particle interactions in energy ranges relevant for planned neutrino experiments. Paritcles in the tertiary beam line are identified using a set of dedicated beamline detectors including Wire Chambers, Time of Flight counters, Cherenkov counters, and a muon range stack. Here we present an updated calibration of the negative pion-Argon interaction data utilizing the two years of running data and work on the inclusive positive pion inclusive cross-section analysis.

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