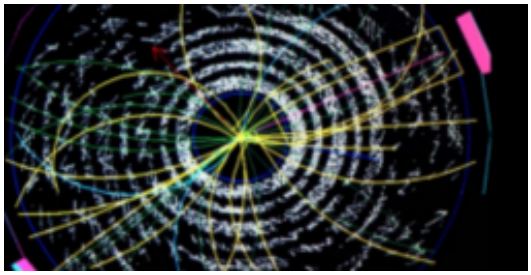

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LArIAT in 10 Minutes

Monday, 5 June 2017 11:00 (15 minutes)

The LArIAT (Liquid Argon in a Test Beam) experiment in Fermilab's Test Beam Facility exposes a liquid argon time projection chamber (LArTPC) to a test beam in order to study LArTPC responses to a variety of charged particles. Event identification and reconstruction techniques as well as cross section measurements from LArIAT will provide critical input to existing liquid argon neutrino experiments such as MicroBooNE, SBND, and ICARUS, and will also help to improve future precision neutrino oscillation measurements in the Deep Underground Neutrino Experiment (DUNE). The work presented here will give an overview of the experiment and highlight several recent results.

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