



Contribution ID: 83

Type: Talk

MicroBooNE Cross Section Results

Thursday, July 13, 2023 4:20 PM (20 minutes)

The MicroBooNE liquid argon time projection chamber (LArTPC) experiment operated in the Fermilab Booster Neutrino and Neutrinos at the Main Injector beams from 2015-2021. Among the major physics goals of the experiment is a detailed investigation of neutrino-nucleus interactions. MicroBooNE currently possesses the world's largest neutrino-argon scattering data set, with 8 published measurements, and more than 30 ongoing analyses are studying a wide variety of interaction modes. This talk provides an overview of MicroBooNE's neutrino cross-section physics program, including investigations of exclusive pion final states and rare processes, novel cross section extraction methods, and measurements with both muon and electron neutrinos from the BNB and NuMI beamlines.

Internet talk

No

Details

Christopher Thorpe

Is this abstract from experiment?

Yes

Name of experiment and experimental site

MicroBooNE at Fermilab

Is the speaker for that presentation defined?

Yes

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Session Classification: Heavy Ion Collisions and Critical Phenomena

Track Classification: Main topics: High Energy Particle Physics