

Exploring Neutrino Interaction Physics with MicroBooNE

Monday, October 24, 2022 11:45 AM (25 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, 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, highlighting recent results and upcoming measurements.

Primary author: PAPADOPOULOU, Afroditi

Presenters: QIAN, Xin (Brookhaven National Laboratory); QIAN, Xin (Brookhaven National Laboratory (US))

Session Classification: Highlights on Neutrino-Nucleus Interactions