Contribution ID: 710 Type: Plenary talk

High-precision neutrino interaction measurements with MicroBooNE

Friday, 21 June 2024 11:00 (20 minutes)

MicroBooNE currently possesses the world's largest neutrino-argon scattering data set, with twenty measurements already publicly available and many more ongoing analyses studying a wide variety of interaction processes. This talk provides an overview of MicroBooNE's most recent results on neutrino interactions. These include investigations of multi-differential inclusive channels with and without detected protons, exclusive pionless topologies, analyses with pion final states, rare processes, and novel neutron detection techniques. These measurements provide invaluable datasets for constraining backgrounds and improving the modeling of neutrino scattering for MicroBooNE and the broader LArTPC neutrino physics programs, including DUNE.

Poster prize		
Given name		
Surname		
First affiliation		
Second affiliation		
Institutional email		
Gender		
Collaboration (if any)		
Primary author: PAPADOPOULOU, Afroditi		

Presenter: PAPADOPOULOU, Afroditi

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