



Contribution ID: 15

Type: talk

The MicroBooNE Experiment

Friday, 20 September 2013 11:44 (22 minutes)

Liquid Argon Time Projection Chambers are quickly becoming one of the most promising detector technologies in neutrino physics. They offer very good 3D and calorimetric resolution and allow relatively straight forward construction of large mass detectors making them a great candidate for current and future precision neutrino measurements. A prime example is the MicroBooNE experiment set to run on the Booster Beam line at Fermilab in 2014. MicroBooNE will use the superior Particle Identification capabilities of the LArTPC to understand the origin of the excess of electromagnetic events observed in MiniBooNE, measure neutrino interactions in argon, and pave the way for future, larger detectors planning to use this technology. The physics goals of the experiment will be presented together with the current status of the detector construction and preparations.

Primary author: SZELC, Andrzej (Yale University)

Presenter: SZELC, Andrzej (Yale University)

Session Classification: Working Group 2

Track Classification: Working Group 2