



**38th INTERNATIONAL CONFERENCE  
ON HIGH ENERGY PHYSICS**

AUGUST 3 - 10, 2016  
CHICAGO

Contribution ID: **1042**

Type: **Poster**

## **Characterising LArTPC detector performance with MicroBooNE**

*Saturday, 6 August 2016 18:00 (2 hours)*

With many current and future neutrino experiments relying on Liquid Argon Time Projection Chamber (LArTPC) technology, characterizing the performance of these detectors is critical. The MicroBooNE LArTPC experiment is capable of performing numerous measurements to better understand the technology. These include measurements of the levels of electronegative contamination using cosmic rays and purity monitors as well as electron diffusion and recombination. MicroBooNE, residing on the surface, can also provide useful information about cosmic ray rate and the build up of space charge in the TPC volume. A laser calibration system has been designed and employed to investigate these important effects.

**Presenter:** MOONEY, Michael (BNL)

**Session Classification:** Poster Session

**Track Classification:** Neutrino Physics