Contribution ID: **139** Type: **Poster presentation**

Overview of the R&D program on liquid Argon TPC's under development at the University of Bern

Monday, 4 July 2011 16:05 (1 minute)

The liquid Argon Time Projection Chamber (TPC) technique is a promising technology for future large-size neutrino detectors. At LHEP of the University of Bern (Switzerland) R&D projects towards large detectors are going on. The main goal is to prove the feasibility of very large detectors (>50kt) with long drift path, more than 10 meters. Therefore we build a liquid Argon TPC with 5 m drift distance. Many other aspects of the liquid Argon TPC technology are also under investigation, as a new device to generate high voltage in liquid Argon, a recirculation filtering system and the multi-photon ionization of liquid Argon with DUV laser has been measured.
In the talk two types of detectors will be presented: A small size prototype liquid Argon TPC for specific detector technology studies and ARGONTUBE, a 5 m long liquid Argon TPC.

Primary author: Mr ZELLER, Marcel (LHEP University of Bern)

Presenter: Mr ZELLER, Marcel (LHEP University of Bern)

Session Classification: Poster Mini Talks II

Track Classification: High Energy Physics & Astronomy