



Contribution ID: 950

Type: **Poster Presentation**

The new front end and DAQ of the ICARUS detector

Icarus is the largest imaging LAr TPC ever operated. During its LNGS run on the CNGS neutrino beam, from 2010 to 2013, produced some thousands neutrino events of unprecedented quality. This was possible thanks its mechanical precision and stability, liquid argon purity and electronics front-end and DAQ. In this poster the last issue (front-end and DAQ) will be presented in detail. Actually Icarus T600, in view of its operation at FNAL on the SBN neutrino beam, is undergoing a major overhauling that implies cathode mechanics improvement, additional PMTs installation and a new electronics front-end and DAQ. This electronics implements a new architecture, integrated onto the flange proprietary design, and a new front-end that improves S/N and induction signals treatment. Also this issue will be presented in detail together with data recently recorder at CERN in the Icarino, 50 litres, LAr facility.

Experimental Collaboration

ICARUS

Primary author: MENG, Guang (Istituto Nazionale de Fisica Nucleare (INFN))

Presenter: MENG, Guang (Istituto Nazionale de Fisica Nucleare (INFN))

Session Classification: Poster session

Track Classification: Detector R&D and Data Handling