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The Light Detection system of the ICARUS T600 Detector at the Short Baseline Neutrino (SBN) Experiment

The proposed Short-Baseline Neutrino (SBN) physics program at Fermilab will deliver a rich and compelling physics opportunity, including the ability to resolve a class of experimental anomalies in neutrino physics. The far detector of the SBN program is the ICARUS-T600. The ICARUS-T600(760 tons) is the biggest LArTPC detector. The ICARUS-T600 was designed for the low background, deep underground conditions of LNGS laboratory. A major upgrade of the ICARUS detector was performed at CERN in order to allow it to cope with a high cosmic background is the upgrade of the light collection system.. We will discuss about the upgrade and the performance study of the new light detection system of the ICARUS-T600 detector at the SBN Program. Installation and commissioning of the detector components along with the Photo-Multiplier Tube (PMT) system have been completed and currently the apparatus is ready to taking data.

Mini-abstract

A New high performance PMT system for the ICARUS detector to identify neutrino and cosmic events.

Experiment/Collaboration

ICARUS/SBN Far detector

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