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The CERN Neutrino Platform

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The long-baseline neutrino programme has been classified as one of the four highest-priority scientific objectives in 2013 by the European Strategy for Particle Physics. The Neutrino Platform is the CERN venture to foster and support the next generation of accelerator-based neutrino oscillation experiments.

Part of the present CERN Medium-Term Plan, the Neutrino Platform provide facilities to develop and prototype the next generation of neutrino detectors and contribute to unify the European neutrino community towards the US and Japanese projects.

A significative effort is made on R&D for LAr TPC technologies: two big LAr TPC prototypes for the DUNE far detector are under construction at CERN. Those detectors will be exposed in 2018 to an entirely new and NP-dedicated beam-line from the SPS which will provide electron, muon and hadron beams with energies in the range of sub-GeV to a few GeV.

Other projects are also presently under development: one can cite the refurbishing and shipping to the US of the ICARUS detector and the construction BabyMIND a magnetised muon spectrometer to be located on the T2K beam line.

In this talk the status of the CERN Neutrino Platform activities will be presented as well as an overview of the future projects currently under discussion.

Experimental Collaboration

Primary author: BORDONI, Stefania (CERN)

Presenter: BORDONI, Stefania (CERN)

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