



Laboratório de Instrumentação e
Física Experimental de Partículas

Seminário LIP

Quarta Feira, 27 de Junho 2018
11:30

DUNE: The Deep Underground Neutrino Experiment

Ed Blucher,

University of Chicago

The Deep Underground Neutrino Experiment (DUNE) will combine the world's most intense neutrino beam, a deep underground site, and massive liquid argon detectors to enable a broad science program addressing some of the most fundamental questions in particle physics. A primary physics goal is the search for CP violation in neutrino oscillations, which may give insight into the origin of the matter-antimatter asymmetry, one of the fundamental questions in particle physics and cosmology. DUNE will use a neutrino beam originating at Fermilab, and will consist of a far detector located 1.5 km underground at the Sanford Underground Research Facility in South Dakota, 1300 km from Fermilab, and a near detector located at Fermilab. In this seminar, I will describe the current status of the DUNE experiment, and the rapid progress in building large prototype detectors at CERN.

Local: Sala de Seminários (311)

LIP, www.lip.pt

Av. Prof. Gama Pinto, N° 2, 1649-003 Lisboa

Café e bolinhos 30 min antes