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Session 9: Neutrino interactions

DUNE: Status and prospects

J Urheim

Indiana University, USA

The Deep Underground Neutrino Experiment (DUNE) is being developed as an ambitious international science program aimed at many of the deep questions in neutrino physics and beyond. The development of DUNE is tightly coupled with that of the Long-Baseline Neutrino Facility (LBNF), including development of a new intense neutrino source at Fermilab, which serves as host laboratory. The DUNE scientific instruments will consist of 40 kilotons (fiducial) of liquid-argon time projection chamber modules located deep underground at the Sanford Underground Research Facility in Lead, South Dakota, as well as a highly capable Near Detector complex located on the Fermilab site, which together provide a 1300-km baseline for sensitive studies of oscillation phenomena. In this presentation, I will review the status of DUNE/LBNF and describe its scientific opportunities and capabilities.