

The Status of DUNE

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Long-baseline neutrino oscillations hold the key to understanding the crucial open questions in neutrino physics: what is the neutrino mass ordering and is the Charge-Parity(CP) symmetry violated in the lepton sector. The Deep Underground Neutrino Experiment (DUNE) is being constructed at the Sanford Underground Research Facility (SURF) in South Dakota to address these very questions. It will employ 70 kTons of liquid argon to detect neutrinos travelling a distance of 1300km from Fermilab, near Chicago. The liquid argon time projection chamber (LArTPC) technology will also enable a broad range of non-beam physics, such as measurements of atmospheric and astrophysical neutrinos. In this talk, I will present the status of the DUNE experiment and its sensitivity to beam and non-beam neutrino physics.

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