

Fermilab Accelerator Complex Plans for the LBNF/DUNE Era

WEDNESDAY

FEBRUARY 24

4:00 P.M.

RM 118 NSH

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In this presentation I will discuss the plans to upgrade the Fermilab Accelerator Complex in order to meet the challenges presented by the ongoing and future Fermilab based neutrino experiments exploring the Intensity Frontier. As part of these plans, there will first be an increase of the maximum proton beam power available to the target for the NOvA experiment, from 400 kW to 700 kW. This will happen by implementing the Proton Improvement Plan (PIP). Subsequently, there will be an additional increase of the beam power available to the target for the DUNE experiment, going first to 1.2 MW (PIP-II) and then to 2.4 MW (PIP-III). The plans also include building a Long Baseline Neutrino Facility (LBNF), with a new beamline at Fermilab, where protons extracted from the Main Injector will produce a wide band neutrino beam which will be aimed toward underground detectors in South Dakota, about 1,300 km away. I will discuss the status of the upgraded and new facilities as well as the associated challenges for the Fermilab Accelerator Complex during the next 10 years.

Refreshments
in Rm 202 NSH
@ 3:30 pm