PROJECT X

Jim Kerby

Fermi National Laboratory

Abstract

As the Fermilab Tevatron Collider program draws to a close a strategy has emerged of an experimental program built around the high intensity frontier. The centerpiece of this program is a superconducting H- linac that will support world leading programs in long baseline neutrino experimentation and the study of rare processes, with potential applications in nuclear physics and nuclear energy. Project X will provide multi-MW beams from the Main Injector over the energy range 60-120 GeV, simultaneous with mult-MW beams at 3 GeV. Shared technology development with ILC and the Muon Collider will establish a bridge to future facilities at the energy frontier. This talk will describe the currently favored accelerator configuration, associated performance projections, status of the accelerator R&D program, and the strategy for moving forward.