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Project-X: stepping stone for future accelerator-based HEP at Fermilab

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Fermilab is leading an international consortium to develop the design of “Project-X” which is an accelerator complex based on a new H- linac that will drive a broad range of experiments at the Intensity Frontier. Project X will provide multi-MW beams from the Main Injector over the energy range 60-120 GeV, simultaneous with multi-MW beams at 3 GeV. The Project-X research program includes world-leading sensitivity in long-baseline neutrino experiments, neutrino scattering experiments, and a rich program of ultra-rare decay and electric dipole moment experiments that are sensitive to most new physics scenarios beyond the Standard Model. Shared technology development with the International Linear Collider and the Muon Collider will establish a bridge to future facilities at the energy frontier. This talk will describe the Project-X accelerator configuration, associated performance projections, status of the accelerator and research program R&D and the strategy for moving forward.

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