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“Prospects of Neutrino Cross Section Measurements Using the NuMI off axis at ICARUS”

ICARUS, a Liquid Argon Time Projection Chamber, will serve as the Far Detector of the short-baseline neutrino program using the Booster beamline at Fermilab. It is 103 mrad off-axis of the NuMI beamline. Prospects for cross-section measurements and the status of the trigger system using the PMT system to collect electron and muon neutrinos from NuMI will be shown. Accurate neutrino cross-section measurements on argon are required for precise measurements of neutrino oscillation physics such as CP- violation and the ordering of the neutrino masses.

Mini-abstract

Preliminary reports of the ICARUS trigger system from simulation.

Experiment/Collaboration

ICARUS

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