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Prospects of neutrino cross-section measurements and electron neutrino selection with the NuMI off-axis beam at ICARUS

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ICARUS is a Liquid Argon Time Projection Chamber, which is the Far Detector of the Short-Baseline Neutrino program. It uses the Booster beam and is located 103 mrad off-axis from the NuMI beamline at Fermilab. Prospects for cross-section measurements and progress with the selection of the electron neutrino from NuMI interactions will be shown. Accurate measurements of the neutrino cross-section in argon will allow precise measurements of neutrino oscillations physics, as well as give us the opportunity to perform searches for physics beyond the standard model.

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