Contribution ID: **349** Type: **Poster**

PROSPECT: A Precision Reactor Neutrino Oscillation and Spectrum Experiment

Experiments near reactors provide an excellent opportunity to study neutrino oscillations and measure the flux and spectrum of antineutrinos from fission products in the reactor core. PROSPECT is a precision reactor neutrino experiment at short baselines of ~5-20m near a US research reactor. The goal of the experiment is to search for short-baseline oscillation, probe the reactor anomaly, and make a measurement of the antineutrino spectrum from a highly enriched uranium core. We will describe the design and experimental strategy of PROSPECT along with its sensitivity and physics potential.

Primary authors: HEEGER, Karsten (University of Wisconsin); Prof. HEEGER, Karsten (Yale University)

Presenter: Prof. HEEGER, Karsten (Yale University)

Track Classification: Reactor Neutrino Oscillations