



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.

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**Track Classification:** Reactor Neutrino Oscillations