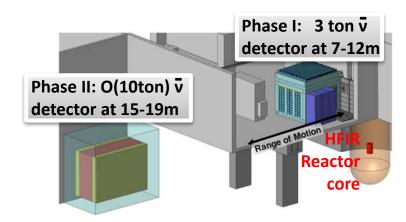
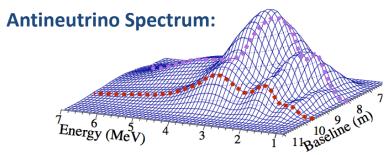
PROSPECT: a Neutrino Oscillation and Spectrum Experiment

Research Overview

PROSPECT addresses "Reactor Antineutrino Anomaly" with search for sterile neutrinos and precise measurement of the U-235 reactor antineutrino spectrum





Potential Collaborations

- Neutrino Physics
 - Neutrino Oscillation Studies
 - Precision Reactor Neutrino Spectrum
 - Studies of cosmogenic fast-n background
- Reactor Monitoring Demonstrations
 - Reactor monitoring with a compact onsurface antineutrino detector
 - Reactor antineutrino modeling
- Adapt liquid scintillator of PROSPECT to neutron detection projects

PROSPECT Schedule

- PROSPECT is a new experiment
 - Funded by DOE-Science
- Data taking expected to start in late 2017
 - Excellent time for new students to join

Contact: Nathaniel Bowden, nbowden@llnl.gov (Rare Event Detection Group)