



PHYSICS AND ASTRONOMY COLLOQUIUM

Dr. Karsten Heeger

University of Wisconsin

“Disappearance of Reactor Neutrinos: Daya Bay and Beyond”

Abstract

Experiments with reactor antineutrinos have played an important role throughout the history of neutrino physics. Recently the Daya Bay experiment observed the disappearance of electron antineutrinos over kilometer-scale baselines and measured the last unknown neutrino mixing angle θ_{13} . Experiments with reactor neutrinos at short baselines enable precision studies of neutrino properties, probe non-standard physics, and offer opportunities for reactor monitoring. I will describe the recent results of the Daya Bay experiment and discuss prospects for future reactor experiments.

Wednesday, November 07, 2012

3:30 p.m.

Bob Wright Centre

Room A104