

COLLOQUIUM

Department of Physics

**Much faster than a bullet train: (Accelerator) neutrinos
across Japan**

**Kendall Mahn
Michigan State University**

Abstract

One of the most promising investigations of beyond-the-Standard-Model physics has been the study of neutrino oscillation, that is, the conversion of neutrinos from one flavor to another as they propagate. One method to study neutrino oscillation uses intense sources of neutrinos produced from accelerators. These beams are sent 100-1000km in one of the grandest tests of quantum mechanics imaginable. This talk will describe the growing interest in neutrinos, how accelerator-based neutrino experiments are shaping our understanding of neutrino oscillation physics, and include the latest results from accelerator based experiments like the Tokai-to-Kamioka experiment in Japan



Monday, November 27, 2017, 3:00 pm

SERC, Room 116

Refreshment will be served at 2:45