

Special Day!

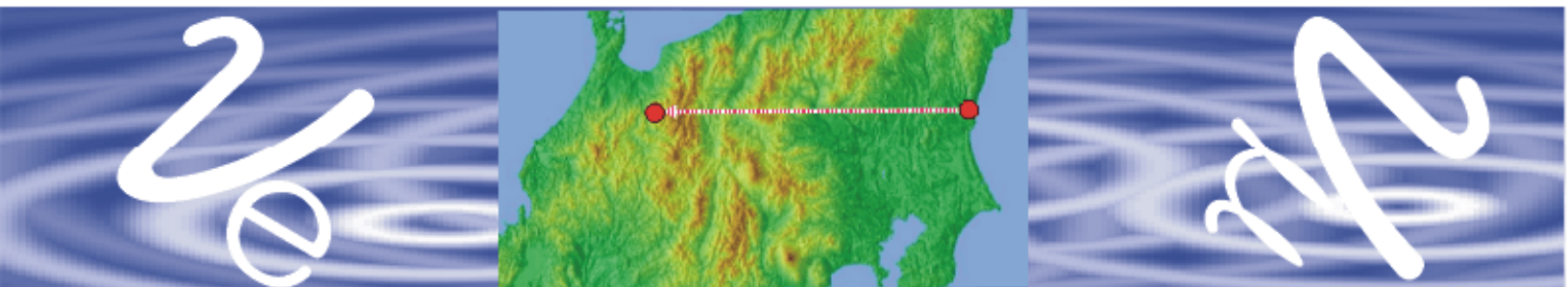
LEPP Journal Club

Wednesday, June 1, 2011. 4:00 pm (3:45 refreshments)
301 Physical Sciences Building



Bruce Berger Cornell PhD '01
Colorado State University

First Results from the T2K Neutrino Oscillation Experiment



T2K (Tokai-to-Kamioka) is a long-baseline off-axis accelerator neutrino oscillation experiment designed to search for the appearance of electron neutrinos and disappearance of muon neutrinos in a muon neutrino beam. The beam is produced at the J-PARC facility in Tokai, Japan, where it is measured at a baseline of 280 m by the ND280 near detectors before traveling 295 km to the far detector, Super-Kamiokande. I will introduce neutrino oscillations and then present a first look at muon neutrino disappearance and electron neutrino appearance based on the inaugural T2K Run I, which ended in June 2010.



LEPP, the Cornell University Laboratory for Elementary-Particle Physics, has joined with CHESSE to become the Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE). LEPP's primary source of support is the National Science Foundation.

