

The Physics Department Invites you to a: Seminar



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Neutrino Physics with SciBooNE and T2K

In the last decade, neutrino experiments have definitively shown that neutrinos have non-zero mass and undergo flavor oscillation. The next generation of experiments will take the field from the discovery to the precision measurement phase. The T2K experiment in Japan is a next generation long-baseline accelerator experiment designed to perform a sensitive search for electron neutrino appearance. One crucial component of the precision era is better understanding of neutrino interaction cross sections. SciBooNE is a neutrino experiment that operated successfully at Fermilab in 2007 and 2008, and is making the most precise cross section measurements to date near 1 GeV. I will describe T2K and SciBooNE, and the role of SciBooNE's data in the T2K analysis; I will also present the first physics analysis and prospects for future measurements.

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