Monday – September 28, 2015
4:00 PM
Kolker Room (26-414)

(refreshments served at 3:30 PM)

Bright Lights, Big Detectors

Prof. Janet Conrad - MIT

Abstract: This talk will report on first light from the MicroBooNE liquid argon time projection chamber (LArTPC). This is the first large LArTPC built in the US, and only the second constructed in the world. "First light" is meant figuratively -- as in first events -- and also literally. We will discuss the signals from the light collection system built by MIT. We are also working on light collection for a next-generation large LArTPC detector called SBND. We will show results on newly developed lightguides for this experiment, dubbed "Wunderbars." This talk will place these experiments within the context of the future US neutrino program.