

Physics Colloquium

Michigan Technological University

Thursday, November 3, 2011 at 4:00 pm

Room 139 Fisher Hall



Searching for the Dark Matter

Jeter Hall

Fermi National
Accelerator Laboratory

Abstract: There is a large body of evidence that ~85% of the matter in the Universe is in the form of cold, non-baryonic dark matter. I describe how laboratory particle detectors are searching for clues about the nature of the dark matter. I focus on leading experimental techniques, current results, and challenges in searching for an unknown form of matter.

Bio: I did my graduate work at the University of Utah searching for TeV gamma rays from dark matter annihilation. Since leaving the University of Utah in 2007, I have been a post-doc at the Fermi National Accelerator Laboratory working on two experiments attempting to directly detect dark matter, the cryogenic dark matter search (CDMS) and the Chicagoland observatory for underground particle physics (COUPP).