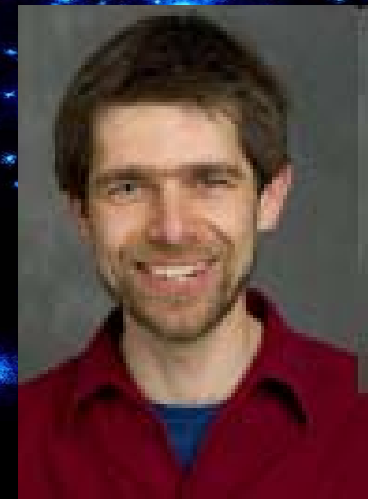


CU Physics Department Colloquium

Monday, December 5, 2011 4:10 PM 428 Pupin Hall

Direct Search for Dark Matter

A colorful variety of experiments attempts to find out what all that Dark Matter in the Universe is made of, resulting in a buzzing field of research. The talk will review what a variety of astrophysical observations tell us (and don't tell us) about the Nature of Dark Matter. The basic principles for the direct detection of Weakly Interacting Massive Particles (WIMPs) in laboratory-scale detectors will be presented. Various experimental techniques will then be explained together with the current status and data from running detectors, as well as prospects for the near future. As will become clear, the direct detection of Dark Matter is in an extremely exciting phase, with realistic prospects to clarify one of the largest mysteries of contemporary physics within the next few years.



Rafael Lang, University of Purdue