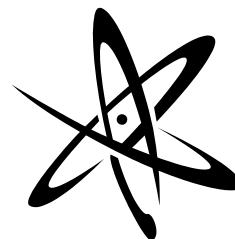


PHYSICS COLLOQUIUM

Seminars



Daniel Akerib

Case Western University

“Looking for WIMPs in the Galactic Halo: the Search for Dark Matter using Ultra-Cold Particle Detectors”

Monday, May 5, 2008

4:00 PM, Ronald Geballe Auditorium, Rm. A-102

May 5-9, 2008

Abstract: Overwhelming observational evidence indicates that most of the matter in the Universe consists of non-baryonic dark matter. One possibility is that the dark matter is Weakly-Interacting Massive Particles (WIMPs) that were produced in the early Universe. These relics could comprise the Milky Way's dark halo and provide evidence for new particle physics, such as Supersymmetry. After reviewing some of the evidence for dark matter and the WIMP hypothesis, Daniel will describe the Cryogenic Dark Matter Search experiment, CDMS-II, which aims to see WIMPs using athermal-phonon and ionization sensitive detectors housed in a low-radioactive 20-milli-Kelvin environment 2000 feet below ground. Our searches have yielded some of the most sensitive limits to date on the interactions of WIMPs in the galactic halo with terrestrial detectors and begun to rule out some of the supersymmetric parameter space. He will report on these results, as well as the current status of the ongoing run of CDMS-II and our preparations for carrying out a next generation experiment, the SuperCDMS 25 kg experiment.

Tuesday, May 6

Condensed Matter Seminar

4:00 PM, Rm. C-421, PAT

Valery Milner, UBC Chemistry

TBA

Thursday, May 8

Physics General Exam

3:00 PM, Rm. 178, NPL

Mike Marino, UW Physics

Astronomy Colloquium

4:00 PM, Rm. A-102, PAA

Paul Green, CfA/Harvard

“X-raying Pandora's Box with the ChaMP”

Friday, May 9

INT Seminar

10:15 AM, Rm. C-421, PAT

P.H. Heenen, Universite Libre de Bruxelles

“The Esperance Code: A Tool for Extending DFT to 5-Dimensional Quadrupole Dynamics”

Particle Astrophysics Seminar

3:30 PM, Rm. A-110, PAA

Kevin Connolly, UW Physics

“SNO+”