

University of Washington • Department of Physics

PHYSICS COLLOQUIUM

Neil Weiner (Center for Cosmology and Particle Physics, NYU) "Illuminating Dark Matter "

Monday, May 4th, 2009

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

Abstract: The existence of dark matter has been confirmed by a wide variety of experiments, on a wide variety of length scales. However, the nature of the dark matter remains elusive. One intriguing class of candidates - weakly interacting massive particles or "WIMPs" - offer the prospect of detection in cosmic rays, in direct detection experiments, and at colliders. Of late, there has been an increasing set of experimental signals, principally from cosmic rays, which may be providing a first sign of dark matter. I will explore the range of signals and anomalies, and the challenges of understanding all of them in terms of dark matter. We will see that, if dark matter is responsible for these anomalies, it may be pointing us to a much richer set of physics in the dark sector.

Monday May 4th, 2009 – Friday May 8th, 2009

Joint Theoretical-Experimental Workshop on Signatures of Long-Lived Exotic Particles at the LHC

For details see <http://silicon.phys.washington.edu/LongLivedWorkshop/>

Tuesday, May 5th, 2009

CMA Seminar

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

Marjorie Olmstead, UW Physics

"Heteroepitaxial doped Ga₂Se₃: Candidate dilute magnetic semiconductor "

Tuesday, May 5th, 2009

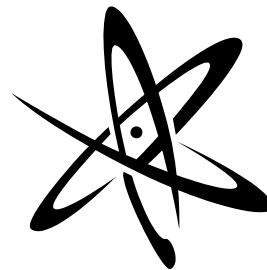
CENPA Seminar

2:30 PM, Rm. 178, CENPA

Steve Elliott

"Double beta decay: the MAJORANA project "

Seminars



May 4-8