University of Washington Department of Physics

PHYSICS COLLOQUIUM, partially funded by the GSFEI

seminars

February 12-16, 2007

Oliver Buchmüller
CERN

"Search for New Physics at the Large Hardron Collider at CERN"

Monday, 2/12
4:00 P.M., Ronald Geballe Auditorium, A-102, PAA
Reception at 3:45 P.M. in the lobby

Abstract:
After a machine-commissioning phase in the 2007, the 27 km long Large Hardon Collider (LHC) at CERN (Geneva/Switzerland) will begin colliding protons at a center-of-mass energy of 14 TeV, becoming the world's highest energy particle collider. The main goals of the LHC are the search for the Higgs boson, the last remaining undiscovered particle of the Standard Model of particle physics, and the search for physics "beyond the Standard Model". I will talk about what we expect to see, what we might see, and how we do it.

Tuesday, 2/13

CMA Seminar Dave Bacon, UW CSE
4:00 P.M., Rm. C-421, PAT "When Physics and Computer Science Collide: A Cross Cultural Extravaganza"

Thursday, 2/15

Astronomy Colloquium David Spergel, Princeton
4:00 P.M., Rm. A-102, PAA "WMAP and Beyond"

EPE Seminar Oliver Buchmüller, CERN
4:30 P.M., Rm. B-420, PAB "CMS Physics Commissioning and Physics Possibilities in First Year of Operation"

Friday, 2/16

Special Surface Science Seminar Taisuke Ohta, Advanced Light Source, Berkeley and Fritz-Haber-Institut, Berlin
3:30 P.M., Rm. 154, Bagley "Controlling the Electronic Structure of Graphene Layers"