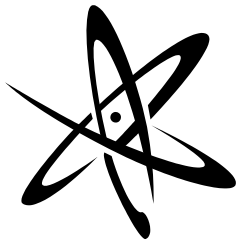
University of Washington Department of Physics

Seminars



Oct 6th-Oct 10th

PHYSICS COLLOQUIUM

Chun Ning (Jeanie) Lau (UC Riverside)
"Graphene Quantum Electronics and Devices"

Monday, October 6, 2008
4:00 PM, Ronald Geballe Auditorium, Rm. A-102

Abstract: Graphene, a two-dimensional single atomic layer of carbon, has recently emerged as a promising candidate for electronic materials, as well as a new model system for condensed matter physics. In this talk I will give a brief overview of this rapidly expanding field, and discuss our recent results on novel transport phenomena in graphene, including coherent interference of multiply-reflected charge waves, quantum hall states in p-n junctions, gate-tunable Josephson supercurrent transistors, and graphene atomic switches. I will conclude the talk with a brief discussion of the challenges and promises offered by this fascinating 2D system.

Tuesday, October 7

Condensed Matter Seminar
4:00 PM, Rm. 421, PAT

David Jones, University of British Columbia

Wednesday, October 8

CMA Physics Seminar
10:30 AM, S-060 Foege Auditorium, Foege Building

Steven Block, Stanford University
"The Biophysics of Gene Regulation, Studied One Molecule at a Time"

Thursday, October 2

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

Mark Krumholz, Lick Observatory
"From Massive Cores to Massive Stars"

Friday, October 3

Particle Astrophysics Seminar
3:30 PM, Rm. A-110, PAA

Toby Burnett, University of Washington
"First-light Surprises from the Fermi Gamma-ray Space Telescope (formerly known as GLAST)"