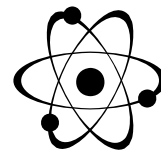


seminars



October 8-12, 2007

PHYSICS COLLOQUIUM,

Andreas Karch

UW Physics

"Applied String Theory"

Monday, 10/8

4:00 P.M., Ronald Geballe Auditorium, A-102, PAA

Reception at 3:45 P.M. in the lobby

Abstract: Strongly coupled systems are omni-present in Physics and responsible for a variety of interesting Phenomena. For particle physicist two recent examples of experimental relevance are the strongly coupled quark gluon liquid at RHIC and jets and showering in hadron colliders. Many more examples can be found in condensed matter physics. These are areas of active research and provide unique theoretical challenges. Certain strongly coupled systems can be solved analytically using their dual description in terms of a higher dimensional gravitational theory. While no relation to experimental data has been established, these solvable examples still have let to many qualitative insights about the behavior of strongly coupled systems in general. In this talk I'll review recent advances concerning transport properties of these solvable theories and give an outlook on potential future applications to RHIC or LHC physics.

Monday, 10/8

INT Seminar Thomas Papenbrock, University of Tennessee, Knoxville

10:30 A.M., Rm. C-421, PAT *"Coupled Cluster Theory for Medium Mass Nuclei"*

Tuesday, 10/9

INT Seminar Dimitri Van Neck, Ghent University

10:30 A.M., Rm. C-421, PAT *"Extended Mean-Field Description of Quasiparticle Excitations"*

Particle Theory Seminar Andy O'Bannon, University of Washington

2:30 P.M., Rm. C-421, PAT *"Metallic AdS/CFT"*

Condensed Matter Seminar Michael Schurr, UW Chemistry

4:00 P.M., Rm. C-421, PAT *"Switchability of the helical structure of DNA"*

Wednesday, 10/10

INT Seminar Ryoji Okamoto, Kyushu Institute of Technology

10:30 A.M., Rm. C-421, PAT *"Unitary Model Operator Approach with Two-Nucleon and Three-Nucleon Forces"*

Thursday, 10/11

INT Seminar Sven Aberg, Lund University

10:30 A.M., Rm. C-421, PAT *"Global View on Pairing"*

Astronomy Colloquium Chris Brook, University of Washington

4:00 P.M., Rm. A102 PAA *"Insights into Disk Galaxy Formation from Simulations"*

Friday, 10/12

INT Seminar Thomas Kuo, SUNY Stony Brook

10:30 A.M., Rm. C-421 PAT *"Low-Momentum Ring Diagrams of Neutron Matter at and near the Unitary Limit"*

INT Seminar Jeremy Holt, SUNY Stony Brook

11:15 A.M., Rm. C-421 PAT *"C14 Beta Decay and Brown-Rho Scaling"*

Particle Astrophysics Seminar E. Thrane

3:30 P.M., Rm. A-110 PAA *"Search for neutrino point sources in Super-Kamiokande: progress report"*