

# University of Washington • Department of Physics

## PHYSICS COLLOQUIUM

Jean Collar (University of Chicago)

“Something Old, Something New ”

# Seminars

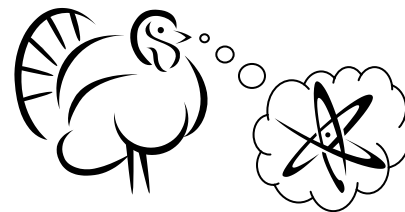
### Monday, November 24th, 2008

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

**Abstract:** We'll discuss two initiatives in astroparticle and neutrino physics at the University of Chicago, both sharing in common the revival and revision of old technologies to address new experimental challenges.

COUPP employs ultra-stable heavy liquid bubble chambers to search for WIMP dark matter. First results leading to improved limits on spin-dependent WIMP couplings will be presented, together with the most recent progress. COGENT aims at the detection of very faint ( $\sim 100$  eV)

signals in detectors massive enough to allow searches for rare processes, using recently developed p-type point contact (ppc) Germanium detectors. The broad range of applications (coherent neutrino scattering, light WIMP searches, double-beta decay) available for these new semiconductor devices will be described, as well as the status of an ongoing reactor (anti)neutrino experiment.



*Nov 24<sup>th</sup>-28<sup>th</sup>*

### Tuesday, November 25th, 2008

#### **Final Exam**

11:00 AM, Rm. C-520, PAB

#### **Astrobiology Seminar**

2:30 PM, Rm. A-118, PAA

#### **Particle Theory Seminar**

2:30 PM, Rm. C-421, PAT

#### **CMA Seminar**

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

**Adam Sorini**, UW Physics

“The Passage of Fast Electrons through Matter”

**Dale Winebrenner**, UW ESS, APL

“Ice Dynamics in the Martian North Polar Layered Deposits: Implications for Basal Temperatures and Astrobiology”

**Will Detmold**, UW Nuclear Theory Group

“Systems of multiple mesons in lattice QCD”

**Danilo Pozzo**, UW Chemical Engineering

“Small angle neutron scattering: A unique structural probe for soft condensed matter ”

### Thursday, November 27th, 2008

**Happy Thanksgiving!**

### Friday, November 28th, 2008

**Holiday**

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