

# University of Washington • Department of Physics

## PHYSICS COLLOQUIUM

**Bob Rutledge (McGill University.) "Measuring the Dense Matter Equation of State with the International X-ray Observatory"**

**Monday, April 20th, 2009**

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

**Abstract:** Observations of the thermal emission from hydrogen atmosphere neutron stars can provide simultaneous measurements of neutron star masses and radii, made possible with future large-collecting area, high spectral resolution X-ray observatories. In this talk, I will briefly review the observational situation of neutron star radii measurements using this technique, where future observations are headed, and how observations with the proposed International X-ray Observatory can provide tight, simultaneous measurements of both neutron star masses and radii. These methods will be sufficient for determining the dense matter equation of state, which has challenged nuclear physicists for decades.

**Monday, April 20th, 2009**

### **CENPA Seminar**

2:30 PM, Rm. 178, CENPA

**Guy Ron, Weizmann Institute of Science, Israel**

"The Proton Electromagnetic Form Factor Ratio at Low  $Q^2$ "

**Tuesday, April 21st, 2009**

### **CENPA Seminar**

2:30 PM, Rm. 178, CENPA

**Pascal Renschler, University of Karlsruhe, Germany**

"Simulations of tritium beta-decay electrons incident on silicon for the KATRIN Detector"

### **Particle Theory Seminar**

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

**Kathryn Zurek, Fermilab**

### **CMA Seminar**

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

**Alexander Kozhanov, UCSB Physics**

"Magnetostatic spin waves in ferromagnetic microstructures"

**Thursday, April 23rd, 2009**

### **Astronomy Colloquium**

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

**Drake Deming, NASA Goddard Space Flight Center**

"The EPOXI/EPOCH Investigation of Extrasolar Planets"

**Friday, April 24th, 2009**

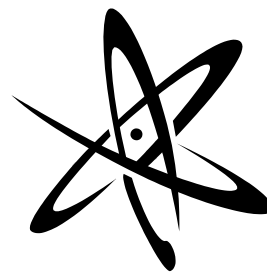
### **Particle Astrophysics Seminar**

3:30 PM, Rm. A-114, PAA

**Stefan Schlenstedt, DESY/Zeuthen**

"The High-Energy Astro-Particle Physics Program at DESY: News on IceCube and Plans for CTA"

# *Seminars*



*Apr 20th-24th*