

## WEEKLY CALENDAR

April 19, 2010

### Departmental Colloquium

"Science of continuous gravitational wave signals: periodic waves and the stochastic background"

3:40 PM, April 22, 2010  
109 Nicholson Hall

Xavier Siemens  
University of Wisconsin

**Host: Gabriela Gonzalez**

• *Refreshments served at 3:15 PM in 232 (Library) Nicholson Hall* •

We are at the threshold of a new era in astronomy and astrophysics, the era of gravitational waves. The LIGO-Virgo gravitational-wave detectors have achieved phenomenal sensitivities and recently completed a two year data taking run. A new run is underway with an enhanced hardware configuration--a crucial stepping stone toward next generation gravitational-wave detectors. In this talk I will discuss the latest results of searches for periodic gravitational waves from spinning neutron stars. I will also review the results of searches for the stochastic background of gravitational waves, which could be cosmological or astrophysical in origin. I will give sensitivity projections for next generation gravitational-wave detectors, and assess their impact on astronomy and cosmology.

### Special Colloquium

3:40 PM, April 26, 2010  
119 Nicholson Hall

"TBA"

Alejandro Corichi  
Universidad Nacional Autonoma de Mexico

*Host: Jorge Pullin*

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## CONGRATULATIONS TO:

The following students who were honored at the recent College of Basic Sciences Honors Convocation:

Keen–Morris Award: Mary Dean, **James Hostetter**, **Chris Peeler**

Distinguished Research and Public Service Award: **Zach Cummings**

Hussey Award for Outstanding Research: **Richard Strobe**

Outstanding Senior, College of Basic Sciences: **James Hostetter**

LSU Student Named Prestigious Goldwater Scholar, Another Receives Honorable Mention: **Daniel Lum**

<http://appl003.lsu.edu/unv002.nsf/9faf000d8eb58d4986256abe00720a51/971be4545cc0e76486257704006d984e?OpenDocument>.

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## Publications:

“New subshell closure at  $N = 58$  emerging in neutron-rich nuclei beyond  $^{78}\text{Ni}$ ,” **E. F. Zganjar** with UNIRIB coauthors, Physical Review C81 044303 (2010).

“Pure Mott Phases in Confined Ultracold Atomic Systems,” **V. G. Rousseau**, G. G. Batrouni, **D. E. Sheehy**, **J. Moreno**, and **M. Jarrell**, Physical Review Letters 104, 167201 (2010).