

**LSU**College of  
ScienceDepartment of Physics  
& Astronomy202 Nicholson Hall  
Louisiana State University  
Baton Rouge, LA 70803  
TEL: 225-578-2261  
FAX: 225-578-5855  
<http://www.phys.lsu.edu>

# Weekly Calendar

October 19 - 23, 2015

## Departmental Colloquium

### “Quantum correlations and entanglement in the presence of dispersive media”

**3:30 PM Thursday, October 22, 2015****109 Nicholson Hall****Ryan Glasser**  
Tulane University

HOST: Mark Wilde

In this talk I will describe a four-wave mixing process that has been shown to generate strongly nonclassical states of light that find many uses in the field of quantum information. This process also generates large dispersive effects, resulting in extreme manipulations of the group velocity of light. Both slow- and fast-light will be introduced, and I will describe a series of experiments that combine nonclassical states of light and entanglement with dispersive media. The experimental results provide some insight into the role that quantum mechanics may play in enforcing causality.

## Special Announcement:



Reconnect with fellow alumni and former professors.  
Meet current students.  
Enjoy jambalaya & science in the Quad.

## Join us for Physics & Astronomy ALUMNI TAILGATE

**Saturday, October 24**  
Nicholson Hall  
LSU Quadrangle **3-6 p.m.**

Join us for LSU Homecoming on Saturday, October 24 and join fellow alumni as we celebrate science and fall football.

- Tour the Landolt Observatory
- Observe research by students and faculty
- Interact with astronomy and public outreach from the MARS Truck
- Enjoy jambalaya and LN<sub>2</sub> ice cream

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