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# WEEKLY CALENDAR

August 25 - 29, 2014

## DEPARTMENTAL COLLOQUIUM

**"The beauty of physics: patterns, principles, and perspectives"**

3:30 PM August 28, 2014  
109 Nicholson Hall

**A.R.P. Rau**

LSU, Department of Physics & Astronomy

**Host: Juhan Frank**

• *Refreshments served at 3:10 PM in 232 (Library) Nicholson Hall* •

In a book with this title, about to be released, I consider some overarching ideas and patterns that occur throughout physics, from classical to quantum and over all sub-areas of the subject. These ideas connect to those outside of physics so that non-physicists can also access some of their realizations, including sophisticated ones, in physics. I will discuss some of these topics such as : adding dimensions, states and transformations, stability at saddles, symmetry and its breaking, and the role of time

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### PUBLICATIONS:

1. "Nonsingular bouncing cosmologies in light of BICEP2" Yi-Fu Cai, Jerome Quintin, Emmanuel N. Saridakis and **Edward Wilson-Ewing**, JCAP 07 (2014) 033..
2. "Why are the effective equations of loop quantum cosmology so accurate?" Carlo Rovelli and **Edward Wilson-Ewing**, Phys. Rev. D90 (2014) 023538.

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### ANNOUNCEMENT:

The University will be closed on Monday, September 1, 2014 due to the Labor Day Holiday. Classes will resume on Tuesday, September 2, 2014 at 7:30 am.