

WEEKLY CALENDAR

February 1, 2010

Departmental Colloquium

"The Second Quantum Revolution"

3:40 PM, February 4, 2010
109 Nicholson Hall

Jonathan Dowling
LSU – Department of Physics and Astronomy

Host: Juhan Frank

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

We are currently in the midst of a second quantum revolution. The first quantum revolution gave us new rules that govern physical reality. The second quantum revolution will take these rules and use them to develop new technologies. In this review we discuss the principles upon which quantum technology is based and the tools required to develop it. We discuss a number of examples of research programs that could deliver quantum technologies in coming decades including; quantum information technology, quantum electromechanical systems, coherent quantum electronics, quantum optics and coherent matter technology.

Congratulations To:

Victor Taveras who has received the Bergmann-Wheeler prize of the International Society for General Relativity and Gravitation.

Publications:

"UBV Photometry for HD 1", A. U. Landolt, The Observatory, 130, 33, 2010.