

WEEKLY CALENDAR

April 28, 2008

Departmental Colloquium

"How to Untwinkle a Star"

3:40 PM – Thursday, May 1, 2008

109 Nicholson Hall

Peter Milonni

Los Alamos National Laboratory

Host – Jonathan Dowling

•Refreshments served at 3:15 PM in 201 Nicholson Hall•

Atmospheric turbulence severely limits the imaging capabilities of ground-based telescopes. However, adaptive optical techniques based on artificial guidestars allow the deleterious effects of atmospheric turbulence to be substantially reduced. Following a brief review of some basic concepts of adaptive optics, attention will be focused on the use of laser-excited mesospheric sodium as an artificial guidestar.

Special Colloquium

"Emergent Phenomena of Transition-Metal Oxides: from Bulk to surfaces/interfaces"

3:40 pm – Wednesday, April 30, 2008

109 Nicholson Hall

Jiandi Zhang

Florida International University, Miami, FL

Host: Dana Browne

Relativity seminar

"Particles moving around black holes: Opportunities in self-force problems"

10:00 a.m. – Friday, May 2, 2008

338 Johnston Hall

Ian Vega

University of Florida

Publication:

"Hastening, delaying, or averting the sudden death of quantum entanglement", **A.R.P. Rau**, M. Ali, and G. Alber, *EPL* 82, 40002 (2008).

"Upper Limit on the Cosmic-Ray Photon Flux Above 1019 eV Using the Surface Detector of the Pierre Auger Observatory", **A. Dorofeev, J.G. Gonzalez, J. Matthews, M. McEwen, R.R. McNeil**, [Pierre Auger Collaboration], *Astroparticle Physics* 29 (2008), 243.

"Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei", **A. Dorofeev, J.G. Gonzalez, J. Matthews, M. McEwen, R.R. McNeil**, [Pierre Auger Collaboration], *Astroparticle Physics* 29 (2008), 188.