

PHYSICS & ASTRONOMY WEEKLY CALENDAR

TEL: 225-578-2261 FAX: 225-578-5855 http://www.phys.lsu.edu 202 NICHOLSON HALL Louisiana State University Baton Rouge, Louisiana 70803-4001

November 5, 2007 Departmental Colloquium

"Is Spacetime an Emergent Phenomenon?"

3:40 PM - Thursday, November 8, 2007 109 Nicholson Hall

Vijay Balasubramanian University of Pennsylvania Host - Luis Lehner

• Refreshments served at 3:15 PM in 229 Nicholson Hall •

I will argue, first in the semiclassical theory of gravity and then in string theory, that space time itself is an emergent phenomenon that arises as a long distance effective description of a more complex underlying system. Many of the arguments will focus on the origin of entropy in gravitating spacetimes.

Material Science and Engineering

"Micro-oscillators, Micromagnets, and Magnetic Resonance Force Microscopy"

3:40 PM – Wednesday, November 7, 2007 109 Nicholson Hall

> John Markert University of Texas

> John DiTusa - Host