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202 NICHOLSON HALL
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Baton Rouge, Louisiana 70803-4001

WEEKLY CALENDAR

April 4, 2011

Departmental Colloquium

Thursday, 3:40 PM, April 7, 2011
109 Nicholson Hall

"The Many Faces of black Holes"

Abhay Ashtekar
Pennsylvania State University

Host: Parampreet Singh and Jorge Pullin

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

Black holes are widely recognized as the engines that drive the most energetic phenomena in astrophysics. But they have also been the engines behind some of the most unexpected and fascinating advances in fundamental physics that have brought together general relativity, quantum physics and statistical mechanics. More recently, they have led to unforeseen interplays between quantum geometry, Chern-Simons theory and number theory, and brought out new universalities. The talk will present an overview of these developments addressed to non-experts!

Publications:

1. "A Novel Experimental Device for Seebeck Coefficient Measurements of Bulk Materials, Thin Films, and Nanowire Composites", D. Pinisetty, **N. Haldolaarachchige**, **D.P. Young**, and R.V. Devireddy, *Journal of Nanotechnology in Engineering and Medicine* **2**, 011006 (2011).