



SACRAMENTO STATE

Department of Physics & Astronomy Spring 2007

Physics Colloquium Series

"Breaking News About Radiating Black Holes"

Black holes are conventionally defined as objects with a gravitational field so powerful that even electromagnetic radiation cannot escape their pull. Against this classical background, there is the quantum mechanical description for which black holes can emit radiation. This gives black holes a central role in different fields of physics, including, not only General Relativity, but also Quantum Field Theory and Thermodynamics. The understanding of black hole physics is also a key knowledge to test Planck scale physics and the onset of quantum gravity. To this purpose, a new approach to black hole physics has been recently proposed and some of the new intriguing features are presented.

Prof. Piero Nicolini

University of Trieste

**Thursday, Feb. 15, 2007
4:00-5:20 PM MND 1015**

Open & Free to all Students, Faculty & Public