

# UNIVERSITY OF TEXAS AT DALLAS - DEPARTMENT OF PHYSICS

## PHYSICS COLLOQUIUM

<http://www.utdallas.edu/physics/lectures/info/>

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Wednesday, March 29, 2006; 4:00-5:00 PM  
Kusch Auditorium, FN 2.102

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### Gamma-ray Large Area Space Telescope (GLAST)

**Dr. Eduardo do Couto e Silva**  
*Stanford Linear Accelerator Center*

The Gamma-ray Large Area Space Telescope (GLAST) belongs to next generation of satellite-based gamma-ray telescopes. The GLAST mission, scheduled to launch in 2007, will host two instruments: the Large Area Telescope (LAT) and the GLAST Burst Monitor (GBM). These are designed to measure gamma-rays from about 10 keV to  $> 300$  GeV. The LAT with its unprecedented capabilities, will study, among others, gamma ray bursts, active galactic nuclei, pulsars and supernova remnants. In addition, it will search for hypothetical particles that could shed light on the dark matter problem. After a brief introduction to the GLAST mission we will provide an overview of the scientific capabilities of the LAT, including a description of the instrument and its current status.

**About the speaker:** Eduardo do Couto e Silva received his PhD from Indiana University in 1996 after completing investigations on time dependent B meson oscillations. During the last 10 years he participated in the construction and commissioning of silicon microstrip detectors for particle physics and high energy astrophysics experiments. Currently his main responsibilities include the Integration and Test activities and the design of the Instrument Science Operations Center for the main telescope aboard the GLAST observatory. Dr. do Couto e Silva's research interests include relativistic outflows and the origin of dark matter. He is currently a staff member of the Stanford Linear Accelerator Center and a member of the Kavli Institute for Particle Astrophysics and Cosmology at Stanford University.