



ΓΕΝΙΚΟ ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑΤΟΣ ΦΥΣΙΚΗΣ

PHYSICS COLLOQUIUM

Thursday 22 November 2007
17:00-18:00

3rd Floor Seminar Room

*"High-Time-Resolution Astronomy: Astrophysical
Concepts and Observational Results"*

**Dr. Gottfried Kanbach,
Max-Planck-Institut f. Extraterrestrische Physik,
Garching, Germany**

Abstract

Astronomy of variable objects with timescales in the range from nanoseconds to hours has long been the domain of high-energy astrophysics. Highly variable sources, like pulsars, cataclysmic variables, neutron star and black hole binaries, and gamma-ray bursts, are typically observed at radio, X- and gamma-ray wavelengths. Observations in the visual and IR band of such sources can provide new insights into the radiation processes. We describe experimental advances achieved in the optical range and discuss a selection of recent results obtained with the OPTIMA instrument, mostly on Skinakas.