



UNIVERSITY OF CRETE
DEPARTMENT OF PHYSICS



QCN

CRETE CENTER FOR
QUANTUM COMPLEXITY
AND NANOTECHNOLOGY

ΓΕΝΙΚΟ ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑΤΟΣ ΦΥΣΙΚΗΣ

PHYSICS COLLOQUIUM

Wednesday, 30 April 2014

17:00 -18:00

3rd Floor Seminar Room

“100 years of Gravitation”

Dr. Vitor Cardoso

Instituto Superior Técnico, Lisbon, Portugal

Abstract

General Relativity remains one of the most fascinating constructions of the human mind, explaining gravitation as curved-spacetime effects. Among the strangest predictions, are time-warps, gravitational waves and black holes, topics which are now playing a crucial role in fundamental physics, astrophysics, high energy physics and particle physics. In the last 10 years, our ability to understand strongly nonlinear phenomena in General Relativity has opened up a new Golden Age in the field. From Cosmic Censorship tests to superkicks and black hole bombs, the possibilities are endless. I will describe some of the current activity in the field along with prospects for the future.