



UNIVERSITY OF CRETE
DEPARTMENT OF PHYSICS



QCN

CRETE CENTER FOR
QUANTUM COMPLEXITY
AND NANOTECHNOLOGY

ΓΕΝΙΚΟ ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑΤΟΣ ΦΥΣΙΚΗΣ

PHYSICS COLLOQUIUM

Thursday, 8 May 2014

17:00 -18:00

3rd Floor Seminar Room

**“The MOND paradigm of modified dynamics as an
alternative to a dark universe”**

Prof. Mordehai Milgrom

Weizmann Institute, Israel

Abstract

MOND is an alternative paradigm of dynamics proposed to supersede Newtonian dynamics and General Relativity in the realm of the galaxies and the Universe at large. It strives to account for the various mass discrepancies observed in the Universe--which are generally attributed to "dark matter" and "dark energy"--without such hypothetical entities. Emphasis will be put on the general principles underlying MOND, and on its phenomenology: the various predictions that MOND makes, and how they fare observationally.