



The Department of Physics at the University of Cyprus
is organizing a seminar on

Tuesday, 19th of April 2016, time 3:30p.m.

Room B228, Building 13, New Campus

Speaker:

Dr. Michail Skoteiniotis
Universitat Autònoma de Barcelona

“Quantum Information for Quantum Metrology”

Quantum information is a burgeoning, multi-disciplinary field with immense contributions (both theoretical and experimental) in physics, chemistry, and information theory. One of its most important contributions has been in the theory of measurement. Indeed, the recent announcement by LIGO of the detection of gravitational waves owes much to the theoretical and experimental advances made in quantum metrology over the past 30 or so years. This talk is meant as a review of quantum metrology from the point of view of quantum information theory. I will review the main concepts of quantum metrology, and show how techniques from quantum information theory can be used to establish ultimate bounds on how precise a given parameter can be measured.

No background in quantum information is required.

For more information please contact:
Department of Physics, telephone: 22892826