

ΣΕΜΙΝΑΡΙΟ ΚΕΝΤΡΟΥ ΚΒΑΝΤΙΚΗΣ ΠΟΛΥΠΛΟΚΟΤΗΤΑΣ &
ΝΑΝΟΤΕΧΝΟΛΟΓΙΑΣ/ CCQCN SEMINAR

Tuesday, 03 November 2015

11:00-12:00

3rd Floor Seminar Room

The "quantumness" of the quantum Ising model.

Dr. Patrick Navez

Department of Physics, University of Crete

&

Crete Center for Quantum Complexity and Nanotechnology

Abstract

The quantum Ising model is the simplest model presenting non classical features like a quantum phase transition. In this tutorial, I will review different descriptions of that model: the mean field approach, the exact solution in one dimension and the large coordination number expansion method. Then I will address the problem of applying this model to "D-wave" devices in order to assess its "quantumness".

