



CRETE CENTER FOR
QUANTUM COMPLEXITY
AND NANOTECHNOLOGY

ΣΕΜΙΝΑΡΙΟ ΚΕΝΤΡΟΥ ΚΒΑΝΤΙΚΗΣ ΠΟΛΥΠΛΟΚΟΤΗΤΑΣ & ΝΑΝΟΤΕΧΝΟΛΟΓΙΑΣ/
CCQCN SEMINAR

Tuesday, 29 October 2013

11:00-12:00

3rd Floor Seminar Room

AdS/CFT, holography and condensed matter physics

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Abstract

This seminar will provide a hopefully pedestrian introduction to the AdS/CFT correspondence and its off-springs that come under various names, (like holographic techniques). The key idea is that quantum (field theory) systems in some strongly-coupled limits can be described by semi-classical gravitational theories in higher dimensions. The goal is to use such ideas to address strongly coupled problems in condensed matter physics. A simple exposition of basic ingredients of holography will be given, with insights of what questions are easier to address and which not. A list of interesting problems will be also given where holographic techniques can be applied.

The seminar is tuned to a non-expert audience.

