



CCCN

CRETE CENTER FOR
QUANTUM COMPLEXITY
AND NANOTECHNOLOGY



Crete Center
for Theoretical Physics



ΚΟΙΝΟ ΣΕΜΙΝΑΡΙΟ ΚΕΝΤΡΟΥ ΚΒΑΝΤΙΚΗΣ ΠΟΛΥΠΛΟΚΟΤΗΤΑΣ ΚΑΙ
ΝΑΝΟΤΕΧΝΟΛΟΓΙΑΣ & ΚΕΝΤΡΟΥ ΘΕΩΡΗΤΙΚΗΣ ΦΥΣΙΚΗΣ ΚΡΗΤΗΣ /

JOINT CCQCN -CCTP SEMINAR

Tuesday, 11 February 2014

13:30-14:30

2nd Floor Seminar Room

Entanglement entropy and higher derivative Gravity

Dr Joan Camps

DAMTP, University of Cambridge

Abstract

I will discuss the Maldacena-Lewkowycz derivation of the Ryu-Takayangi prescription for holographic entanglement entropy, and extend it to a more general class of theories of gravity in the bulk. This analysis results in a new euclidean entropy functional, that generalises Wald's entropy. In the lorentzian, this functional is a natural extension of Wald's black hole entropy to time dependent situations.

