



**ΚΟΙΝΟ ΣΕΜΙΝΑΡΙΟ ΚΕΝΤΡΟΥ ΚΒΑΝΤΙΚΗΣ ΠΟΛΥΠΛΟΚΟΤΗΤΑΣ ΚΑΙ
ΝΑΝΟΤΕΧΝΟΛΟΓΙΑΣ & ΚΕΝΤΡΟΥ ΘΕΩΡΗΤΙΚΗΣ ΦΥΣΙΚΗΣ ΚΡΗΤΗΣ /
JOINT CCQCN -CCTP SEMINAR**

Thursday, 18 December 2014

14:00-15:00

2nd Floor Seminar Room

Holographic RG flows and quantum effective actions

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Abstract

I will show how one can write explicit covariant expressions for the renormalized holographic generating functional, in a derivative expansion with respect to the space-time coordinates. Independence of the radial coordinate of the generating functional gives rise to holographic RG equations. I will describe the connection between QFT local RG transformations and radial diffeomorphisms, and show how beta-functions for space-time-dependent couplings can be computed from the bulk Einstein equations. I will discuss the application to the calculation of the quantum effective potential for gauge-invariant operators in holographic models for QCD.

