



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

**11 May, 16:00-17:00 Improved Holographic QCD, the model, Part I 12 May, 16:00-17:00 Improved Holographic QCD, the model, Part II 13 May, 16:00-17:00 Improved Holographic QCD, finite temperature aspects, Part I 14 May 16:00-17:00 Improved Holographic QCD, finite temperature aspects, Part II 15 May 16:00-17:00 Improved Holographic QCD, The phase diagram.**

**2nd Floor Seminar Room**

**A series of lectures on Improved Holographic QCD**

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**Abstract**

A review is provided to holographic models based on Einstein-dilaton gravity with a potential in 5 dimensions. Such theories, for a judicious choice of potential are very close to the physics of large-N YM theory both at zero and finite temperature. The zero temperature glueball spectra as well as their finite temperature thermodynamic functions compare well with lattice data. The model can be used to calculate transport coefficients, like bulk viscosity, the drag force and jet quenching parameters, relevant for the physics of the Quark-Gluon Plasma and condensed matter physics applications.

