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TITLE: New massive gravity and AdS4 counterterms

SPEAKER: Aninda Sinha, IISC, Bangalore

Date: 26.04.2011

Time: 3.30 PM

Venue: Raychaudhuri Hall, Theoretical Physics, IACS

Abstract: This is based on arXiv:1101.4746 (to appear in PRL) and arXiv:1003.0683. In this talk I will describe how a Dirac-Born-Infeld type gravity action appears naturally in the context of AdS/CFT correspondence on the boundary. This is obtained by demanding that physical quantities such as black hole entropy are independent of the cutoff where the boundary theory lives. This DBI type gravity action, quite remarkably, allows for a simple c-theorem consistent with the Zamolodchikov c-theorem in 1+1 dimensions.