CENTRE FOR BASIC SCIENCES 1986
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बिज्ञानेन परिपश्यन्ति धीरा:

OPEN TALK ANNOUNCEMENT

19.08.15   4:00 p.m.   Fermion

Speaker:

Professor Ramesh Anishetty
*(VASP Short Term Visitor to Prof. Manu Mathur,
Department of Theoretical Sciences)*

Affiliation:

The Institute of Mathematical Sciences, Chennai

Title:

A Theory of Quantum Gravity

Abstract:

Fourth order derivative Quantum Gravity in 3+1 dimensions is shown to be perturbatively renormalizable and unitary with Newton's constant vanishing at short distance. Qunatum Gravity coupled to gauge theories is shown to have a universal leading short distance behaviour which potentially can destroy asymptotic freedom. We show that to all loop orders this mishap is avoided. Few remarks for the future will be discussed.

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