

JOINT TUFTS/MIT COSMOLOGY SEMINAR

Quantum Gravity and Inflation – lessons from 2d toy models

Emil Martinec
Chicago

Abstract: Many issues in quantum cosmology are exhibited in a class of two-dimensional field theories of gravity and matter, where the kinematics and dynamics are much simpler. In perturbation theory, these models contain a precise analogue of the scalar sector of cosmological fluctuations in four dimensions. Beyond perturbation theory, one can address aspects of eternal inflation in a rather controlled setting. We will survey the landscape of these toy models and what has been learned to date.

Tuesday, April 21, 2015, 2:30 pm
Robinson Hall, Room 250
Tufts University

Refreshments at 2:00 in Knipp Library, Room 251