

JOINT TUFTS/MIT COSMOLOGY SEMINAR

Quantum corpuscular structure of geometry

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We review the framework in which curved gravitational backgrounds, such as black holes and cosmological spaces, are described as composite quantum entities, coherent states, of constituent soft gravitons at self-sustained quantum critical point. We discuss evidence of these picture and some of its most important theoretical and experimental consequences. In particular, physics underlying the black hole information processing, physics of black hole production in high-energy scattering and quantum consistency of positive cosmological constant.

Tuesday, March 3, 2015, 2:30 pm
Robinson Hall, Room 250
Tufts University

Refreshments at 2:00 in Knipp Library, Room 251