

TATA INSTITUTE OF FUNDAMENTAL RESEARCH
DEPARTMENT OF ASTRONOMY & ASTROPHYSICS

Speaker : Rakesh Tibrewala
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Title : Loop Quantum Gravity and Inflation

Day, Date & Time : Tuesday, 28 April, 2009 at 16.00 hrs

Venue : Lecture Theatre (AG-66)

Abstract

When gravity is quantized, specific quantum geometry effects often arise depending on the quantization scheme used. In loop quantum gravity one such effect (called the inverse volume correction) is known to have implications for the big bang singularity. Here we explore the possibility of getting inflationary scenario, using lattice refinement scheme, from the purely quantum geometrical effect mentioned above.