

Area Seminar

Title Non-Gaussianity as a signature of thermal initial condition of inflation.

Date and Time 15/07/2010 16:00:00

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PRL, Ahmedabad

Area Theoretical Physics

Venue Room No. 469

Abstract Primordial non-Gaussianity is an unique feature of the CMBR, measuring which one can distinguish between the existing inflationary models. I will discuss in this presentation the effects of a pre-inflationary radiation era on primordial non-Gaussianities. We found in our work that presence of such a radiation era enhances the fNL and τ NL by a considerable amount and yields large enough primordial non-Gaussianities that can be measured by future experiments like PLANCK. I will also discuss the methodology to calculate non-Gaussianities in such a scenario and the results thus obtained.