

Area Seminar

Title	Non-Gaussianity as a signature of thermal initial condition of inflation.
Date and Time	15/07/2010 16:00:00
Speaker	Suratna Das 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 \mathcal{N} 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.