



Contribution ID: 55

Type: **not specified**

Non-Gaussianities in halo clustering properties

Wednesday, April 20, 2011 3:10 PM (20 minutes)

Using excursion set theory, and its path-integral formulation, it is possible to analytically compute several properties of the dark matter halos, like their distribution in mass, formation history, and merging rate. The inclusion of non-Gaussian initial conditions establishes an interesting connection between primordial conditions and observable features of the large-scale universe. In this talk, I will briefly introduce the computational techniques and then describe the results for halo mass functions and conditional probabilities with non-Gaussian initial conditions.

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Session Classification: Contributed Talks