Large-scale structure bispectrum modelling

Andrei Lazanu
École Normale Supérieure
France

The new large scale structure surveys that will be launched in the near future will yield a wealth of cosmological data that can be extracted through statistical quantities. Higher order correlation functions such as the matter and galaxy bispectrum can be used as tools to provide complementary information to the power spectrum. In this talk I will explore two avenues - modeling the matter bispectrum towards nonlinear scales using analytical techniques and exploiting the galaxy bispectrum on large scales to constrain primordial non-Gaussianity.