
Cosmological structure formation beyond the single stream approximation

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Abstract

Cosmological structure formation is a non-linear process one would like to understand better. I will report about ongoing work on a renormalization group approach. In particular, I will discuss how the limiting so-called single stream approximation can be overcome and how propagators and power spectra for scalar, vector and tensor perturbations can be calculated in a one-particle irreducible scheme.

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