

Including massive neutrinos in nonlinear perturbation theory

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Summary

Cosmological perturbation theory has proved to be particularly efficient to model the formation of the large-scale structure of the universe. Many refinements have been realized over the years in order to be in tune with the precision reached by observational cosmology. In particular, the effect of neutrinos on the linear matter power spectrum is now well understood. However, a robust analytic model of the impact of neutrinos on the nonlinear matter power spectrum is still missing. In this talk, I will present attempts to remedy this.

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