

Cosmological Perturbations and Large Scale Structure

Tuesday 11 January 2011 09:00 (1 hour)

- overview of gauge ambiguity
- overview of adiabatic initial conditions
- overview of perturbation evolution in different regimes
- matter power spectrum and its dependence on cosmological parameters
- approaches for computing non-linear corrections
- large scale structure observations: galaxy surveys, cosmic shear surveys, Lyman-alpha forests

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