28th Texas Symposium on Relativistic Astrophysics



Contribution ID: 412 Type: Talk

Tomographic lensing constraints with galaxy clustering

Monday 14 December 2015 15:24 (21 minutes)

We investigate how well the lensing potential can be measured tomographically with future galaxy surveys using their number counts. Such a measurement is a consistency test of the standard Λ CDM framework. Based on galaxy angular-redshift power spectra, our analysis suggests that the survey can measure the amplitude of the lensing potential at the same level of precision as other standard Λ CDM cosmological parameters. We further discuss how the lensing signal affects the angular-redshift bispectra.

Author: MONTANARI, Francesco (Universite de Geneve (CH))

Presenter: MONTANARI, Francesco (Universite de Geneve (CH))

Session Classification: 07 - Large scale structures