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Tomographic lensing constraints with galaxy clustering

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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.

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