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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 ACDM 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 ACDM cosmological parameters. We further discuss how the lensing signal affects the angular-redshift bispectra.

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