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CMB lensing - galaxy cross-correlations

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Large scale structure in the universe causes gravitational lensing of the cosmic microwave background (CMB), which has now been well-measured by several CMB experiments. By cross-correlating CMB lensing with tracers of large scale structure (like galaxies), it is possible to obtain new constraints on cosmology and a better understanding of possible systematic errors in cosmological probes.

I will discuss the theoretical formulation, methods used in estimating errors, systematic checks to verify robustness, and cosmological implications of cross-correlations between CMB lensing and galaxy surveys, and will present recent results of cross-correlation analyses.

Collaboration

SPT & DES collaborations

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