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## Enhancing Euclid science through cross-correlation with CMB lensing

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Combining CMB and large-scale structure (LSS) data allows us to probe cosmic evolution from recombination to the present, constraining the amounts of baryonic and dark matter and testing general relativity on cosmological scales, as well as shedding light on the nature of dark energy.

In this talk, I present preliminary results from the clustering analysis of a magnitude-limited galaxy sample from the Euclid Q1 data release, and its cross-correlation with CMB lensing convergence maps from Planck and the Atacama Cosmology Telescope (ACT). These findings demonstrate the remarkable potential of the Euclid survey to deliver precise cosmological constraints in forthcoming releases, and highlight how cross-correlation with CMB probes can yield robust results that overcome the limitations of auto-correlation analyses of dense galaxy samples.

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