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## Constraining cosmology with Quaia quasars and CMB lensing

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Quaia is a new full-sky high-redshift quasar catalog containing 1.5 million objects with estimated redshift derived from the Gaia DR3 quasar candidates. I will first present the work that went into the creation of the catalog using unWISE, SDSS data and a machine learning approach, as well as its decontamination from stars and dust extinction. I will then present the recent cosmological results based on the cross-correlation of Quaia and CMB lensing measurements of Planck. I will focus on the implication of these results for the  $S_8$  tension and local primordial non-Gaussianities. I will conclude discussing ongoing work to constrain the star formation history and the growth rate of LSS across cosmic time using Quaia

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