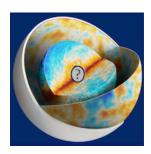
## **Colloque national CMB-France #5**



ID de Contribution: 15 Type: Non spécifié

## Constraining cosmology with Quaia quasars and CMB lensing

mardi 5 décembre 2023 10:40 (20 minutes)

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 S8 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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Classification de Session: Cross-correlations