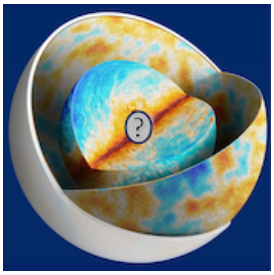

ID de Contribution: **16** Type: **Non spécifié**

SPT-3G D1: CMB Temperature and Polarization Power Spectra and Cosmology from 2019–2020 Observations of the SPT-3G Main Field (2)

lundi 13 octobre 2025 15:00 (20 minutes)

In the second part of this talk, I will first briefly present the lensing bandpowers used in this analysis. These are lensing data inferred from the E-mode polarization maps using the Marginal Unbiased Score Estimator (MUSE), and they are the most precise to date at $L > 350$. Second, I will present constraints on ΛCDM and a few of its extensions with CMB data, highlighting the constraining power of ground-based experiments SPT-3G and ACT. I will show the consistency between SPT-3G, ACT and Planck in constraints on ΛCDM and the status of the Hubble tension and clustering of matter. I will also compare constraints on the excess of lensing previously seen in Planck data to that from SPT-3G and in combination with ACT. I finish by presenting constraints on neutrino mass and additional relativistic species from the CMB.

Auteur: Dr CAMPHUIS, Etienne (IAP-CNRS and Sorbonne University)

Co-auteurs: KHALIFE, Ali Rida (IAP-CNRS and Sorbonne University); Dr BALKENHOL, Lennart (IAP-CNRS and Sorbonne University)

Orateur: KHALIFE, Ali Rida (IAP-CNRS and Sorbonne University)

Classification de Session: Ground-based observatories