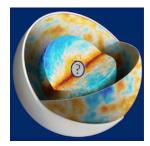
## **Colloque national CMB-France #5**



ID de Contribution: 4

Type: Non spécifié

## A joint Planck and SPT-SZ measurement of CMB lensing cluster masses

mardi 5 décembre 2023 14:40 (20 minutes)

We present the first CMB-lensing galaxy cluster mass measurement using a combination of ground and spacebased surveys (SPT-SZ and Planck). We measure the signal at 4.8 sigma, a significant gain with respect to measurements performed on the two individual datasets. In particular, we show that we take advantage of correlations between the scales observed by SPT-SZ and the scales observed by Planck to improve the constraints on the lensing potential. This result demonstrates that Planck data will remain a key element in CMB-lensing cluster studies for decades to come.

Authors: M. HUCHET, Alexandre (CEA Saclay); MELIN, Jean-Baptiste (CEA Saclay)

**Orateur:** M. HUCHET, Alexandre (CEA Saclay)

Classification de Session: Contributions