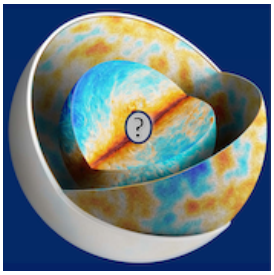

ID de Contribution: **4** Type: **Non spécifié**

QUBIC: taking advantage of Bolometric Interferometry with Spectral Imaging and news from the instrument

lundi 13 octobre 2025 15:40 (20 minutes)

QUBIC, the Q-U Bolometric Interferometer for Cosmology, is a telescope that observes the polarisation of the sky in the millimetre-wavelength range. Its goal is to detect the primordial B-modes of polarisation in the CMB by combining the sensitivity of bolometers with the good understanding of interferometry systematics. This dual aspect of QUBIC allows it to perform spectral imaging, that is, obtaining spatial and spectral information of the sky simultaneously. This makes the separation of components with complex spectral energy distributions easier, hence improving the performance of foreground removal.
I will first present the instrument and how spectral imaging impacts map creation. I will then give a status update on the instrument.

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Classification de Session: Ground-based observatories