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Title : Latest calibration results from QUBIC: The Q&U Bolometric Interferometer for Cosmology

Abstract:

QUBIC is an experiment dedicated to the measurement of polarization B-modes of the Cosmic Microwave Background (CMB) using the novel technology of Bolometric Interferometry. Thanks to its unique spectroimaging capabilities, QUBIC will also be a powerful instrument to constrain foreground contamination. The technical demonstrator has been tested and the concept of this new instrument has been validated.

In this poster, I will explain the instrument architecture, focussing on the optical design. Some of the calibration results will be presented, showing that we actually have a working bolometric interferometer.

The unique design of QUBIC brings new possibilities to CMB polarization mapping including self-calibration and spectroimaging.

Keywords : Primordial cosmology, Instrumentation