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

jeudi 27 février 2020 11:30 (15 minutes)

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 talk, I will first 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.

Field

Cosmology

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