

Calibration strategy and mitigation of systematics effects in the QUIJOTE MFI wide survey

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I will review the current status of the QUIJOTE (Q-U-I JOint TEnerife) experiment, a project with the aim of characterising the polarisation of the Cosmic Microwave Background, and other galactic or extragalactic physical processes that emit in microwaves in the frequency range 10-42GHz, and at large angular scales (1 degree resolution). In particular, I will discuss the status of the wide survey carried out with the first QUIJOTE instrument (MFI), at 11, 13, 17 and 19GHz, and will present some of the challenges in our data processing pipeline: the calibration strategy of the experiment (including gain, polarization efficiency and polarization angle), beam modeling, RFI correction and the set of validation tests.

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