



ID de Contribution: 12

Type: Non spécifié

Wide-survey of the QUIJOTE CMB experiment

mardi 16 novembre 2021 11:40 (20 minutes)

QUIJOTE (Q-U-IJOint TEnerife) is an experiment that operates from the Teide Observatory (Canary islands) at microwave wavelengths ($10 < \nu < 40$ GHz), with the aim to characterise the low frequency polarized Galactic foregrounds, and to study the polarization of the CMB. Recently the Multi Frequency Instrument (MFI) of QUIJOTE concluded a campaign of wide survey observations, providing new maps of the full northern sky at four central frequencies: at 11, 13, 17 and 19 GHz. These maps will be publicly delivered soon. In this talk I will present the QUIJOTE-MFI wide-survey maps and the scientific results related to them. In particular I will report on the characterisation of the diffuse polarized synchrotron and anomalous microwave emission (AME). I will also present new results concerning the microwave Haze, which is an excess of diffuse radiation located around the galactic center region, with spatial correspondence to the gamma-rays Fermi bubbles.

Author: GUIDI, Federica (IAP)

Orateur: GUIDI, Federica (IAP)

Classification de Session: Contributions