

# 岡山大学 物理談話会

Colloquium in Department of Physics, Okayama University

日時：2024年7月10日（水） 14:00～15:00

Date/Time: 14:00-15:00, 10<sup>th</sup> of Jul., 2024

場所：理学部 コラボレーション棟3Fコラボレーション室

Place: Collaboration room at Department of Physics

Speaker : Université Paris-Saclay Prof. Bruno Maffei



Title : BISOU: towards the measurement of the CMB spectral distortions

The BISOU (Balloon Interferometer for Spectral Observations of the primordial Universe) project studies the viability of a balloon-borne spectrometer, pathfinder of a future space mission dedicated to the measurements of the CMB spectral distortions. Taking into account the specificities of balloon flights, a concept based on a Fourier Transform Spectrometer covering a spectral range from about 90 GHz to 2 THz is being studied and modelled. I will present the scientific goals, the instrument and payload concept together with the results of this CNES phase 0 study evaluating the sensitivity of this project to the CMB Compton  $\gamma$ -distortion and CIB measurements.

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