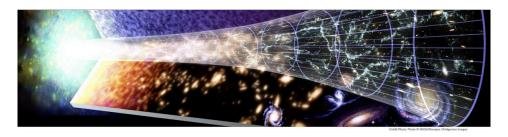
## **GDR CoPhy Episode 2**



ID de Contribution: 38 Type: Non spécifié

## B-mode generation of CMB in the Standard Model Extension

mercredi 22 mai 2024 17:50 (20 minutes)

"According to standard cosmology, near the last scattering surface, the CMB photons scattered via Compton scattering predict that cosmological scalar perturbations at linear order

are not able to source B polarization modes. In this work, we investigate the possibility that such CMB polarization modes

are generated even in the presence of linear scalar perturbations by considering the Lorentz-violating operators in the Standard Model

Extension (SME). Our

results provide a useful tool to constrain new physics using CMB data."

Orateur: MOTIE, Iman