LIM25 - Annecy



ID de Contribution: 92

Type: Non spécifié

Systematic characterization for intensity-galaxy cross-correlations: A case study for the Cosmic Infrared Background Experiment

mercredi 4 juin 2025 12:00 (15 minutes)

Cross-correlation between galaxy redshifts and cosmic infrared background (CIB) anisotropies can offer further insight on the source of observed fluctuations as a function of redshift in the three-dimensional structure of the universe. However, such cross-correlations are sensitive to redshift tracer catalog non-uniformity, which can be significant in certain limits and without mitigation. In this presentation we focus on characterizing tracer non-uniformity, using controlled mocks as well as catalogs from Legacy Survey, unWISE, and HSC. This work is part of an ongoing cross-correlation analysis utilizing near-infrared imaging from the 4th flight of the Cosmic Infrared Background ExploRer (CIBER), and lays the groundwork for future cross-correlations with SPHEREx and other intensity mapping experiments.

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Classification de Session: Contributed Talks 9: HEDTEX/CIBER/PRIMA