

LIM25 - Annecy



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Reionization Cross-Correlations with COMAP-Wide

mardi 3 juin 2025 10:10 (15 minutes)

I will introduce COMAP-Wide, an extension to the ongoing CO Mapping Array Project. Currently, COMAP is operating an autocorrelation-focused CO intensity mapping survey targeting ~ 12 square degrees of total sky area. COMAP-Wide aims to complement this deep survey with a wide-area, cross-correlation-focused measurement of ~ 400 square degrees. The primary target of COMAP-Wide will be a cross-correlation between the CO(2-1) rotational line and reionization-era 21 cm measurements from the LOFAR interferometer, with a long-term goal of measuring the size of EoR bubbles. In this talk, I will describe the COMAP-Wide survey and discuss its ability to constrain the CO and HI signals from the EoR. I will also briefly summarize possibilities for lower-redshift cross-correlations.

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