
First Results from mmIME: The Millimeter-wave Intensity Mapping Experiment

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Abstract

In this talk, I will discuss the Millimeter-wave Intensity Mapping Experiment (mmIME) - an observational program that seeks to leverage data from existing instruments in order to perform power spectra analysis and place early limits on the power spectra of CO and [CII], in advance of a generation of upcoming, dedicated instruments seeking to probe the high redshift Universe using particular tracers of galaxies. mmIME aims to leverage the combined power of the SMA, ALMA, and VLA – utilizing both archival data as well as new, large-scale observing programs – to survey CO emission from $0.2 < z < 6$, and [CII] emission at $z > 4$.

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