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Presentation Requested: oral

Category: Environment, Large Scale Structure and Galaxy Evolution

Question: Is the merger rate with redshift understood? What is implication for galaxy growth and change with the merger rate? i.e. How does it play into the evolution of the SFR, AGN fraction and galactic structure? What role is ALMA playing in better understanding mergers over all cosmic time?

Probing the merger sequence with ALMA

Part of the build-up of galaxies over time proceeds through mergers, especially at higher redshifts, and near overdense regions. We will present predictions for the observability with ALMA of the gas and molecular components of mergers and pre-merger pairs near overdense regions at higher redshifts, which should be the best environment to study the merger sequence.