

## **[CII]-properties and Star Formation-driven Outflows in high-z Galaxies (Michele Ginolfi)**

*Friday, September 13, 2019 10:08 AM (18 minutes)*

ALPINE is an ALMA large program designed to study gas and dust properties of a representative sample of more than one hundred main sequence star-forming galaxies with spectroscopic redshifts between  $4 < z < 6$ , with  $SFR > \sim 10 M_{\odot}/yr$  and stellar mass  $\sim 9 < \log(M_{star}) < \sim 11$ .

I will present some results of the survey, focusing on:

- properties of the observed interstellar-medium (including morphology and kinematics) and the connection of [CII] with other physical quantities, e.g., the well known [CII]-SFR relation;
- major results obtained from the stacking analysis of [CII] spectra / data-cubes, providing new key insights on (i) star formation-driven outflows and (ii) gas recycling in the circumgalactic medium, precious for our understanding of the baryon cycling physics that drive the evolution of high-z galaxies.

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**Track Classification:** Gas and dust in galaxies