Contribution ID: **15** Type: **not specified**

Measuring the Star-formation Histories from SED fitting in the LEGA-C survey

Tuesday 31 May 2022 12:00 (15 minutes)

Galaxies are an amalgamation of several components (dark matter, stars, gas, and dust), constantly interacting with one another. This interaction is imprinted on the spectral energy distribution (SED) of a given galaxy. Panchromatic SED fitting can shed light on the astrophysical processes that regulate galaxy evolution. However, the current SED modeling approaches come with many caveats and limitations. A persistent issue is the poor constraint on the star-formation histories (SFH), with significant systematics on parameters as the stellar mass or star-formation rate as a result. Deep spectroscopic surveys of the stellar continuum are required to take the next step forward. This is achieved by the Large Early Galaxy Astrophysics Census (LEGA-C) survey. In this talk I will present our results from LEGA-C in the context of galaxy evolution.

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Session Classification: Parallel Session: Galaxies & Cosmology