

## Galaxy evolution in dense environments from integral-field spectroscopy. (No 1735)

🕒 11:00 - 11:30    🗨️ Plenary talk    🔗 Plenary 3

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The stellar histories of galaxies are determined by the availability of gas that can cool and form new stars. The amount of such gas is influenced by physical processes both internal and external to the galaxies themselves. In particular, the evolution of galaxies in dense environments such as clusters and groups is strongly influenced by environmental effects.

In the first part of my review I will illustrate the most important cornerstones reached in this field in the past 30 years mostly based on optical imaging and slit/fibre spectroscopy.

In the second part, I will focus on the most recent results obtained with integral-field spectroscopy and multi-wavelength observations regarding the baryonic cycle in cluster galaxies. I will conclude with an overview of the most outstanding open questions and ways to tackle them.