

MAVIS: a revolution in the study of resolved stellar population in the nearby Universe

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The formation and evolution of galaxies, and in particular of the Milky Way, is one of the major puzzles of astrophysics: a detailed physical scenario is still missing, and its understanding requires the joint effort of observations and theories. The evolution with time of the chemical content of a galaxy is one of the topic constraints to understand the most relevant mechanisms driving galactic formation and evolution. Star clusters have proven to be excellent tracers of the chemical evolution of our Galaxy, as done in the last years by the Gaia-ESO Survey.

The challenge is now to move towards nearby galaxies and to investigate, with comparable precision, the star cluster populations in different environments.

MAVIS is the instrument that will make a revolution in studies of crowded field populations, as star clusters, in nearby galaxies. I will show some science cases that will benefit of the MAVIS AO and spectroscopic facilities.

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