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Galaxy evolution and environment: lessons from MUSE and perspectives with MAVIS

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Environmental effects play a primary role in galaxy evolution and in particular in shaping the star formation history of galaxies in groups and even more so in dense environments.

The MUSE IFU has allowed to study in detail how environmental effects act in shaping galaxy properties, its limitation being essentially the spatial resolution that can be reached using ground-based instrumentation. Similarly, the physical properties of galaxies and of their star forming clumps can be studied only out to small distances before being hampered by the seeing effects. The advent of AO assisted instrumentation, such as MAVIS at VLT, will allow to overcome this difficulty, leading to a huge step forward in the comprehension of how galaxy evolve in different environments.

In this talk I will present what we have learned in this field thanks to the GASP MUSE survey and how we propose to use MAVIS to shed light on the open questions.

Primary author: MORETTI, Alessia (Istituto Nazionale di Astrofisica (INAF))

Co-authors: POGGIANTI, Bianca Maria (Istituto Nazionale di Astrofisica (INAF)); GULLIEUSZIK, Marco (INAF - OAPd); VULCANI, Benedetta (INAF-OAPd); BETTONI, Daniela (Istituto Nazionale di Astrofisica (INAF))

Presenter: MORETTI, Alessia (Istituto Nazionale di Astrofisica (INAF))

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