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MAVIS view of massive stars

Massive stars play a key role in various fields of astrophysics. They explode as core-collapse supernovae, sometimes associated with gamma-ray bursts. They produce compact objects (neutron stars and black holes) that can merge and emit gravitational waves. However the evolution and end states of massive stars are still subject to many uncertainties.

In this contribution I will illustrate how MAVIS can help constrain the properties, evolution and feedback effects of massive stars in different environments, with special emphasis on their surface abundances. I will illustrate how young massive clusters and star forming regions are ideal places to study massive stars. I will show examples of past studies performed with SINFONI on the VLT that can be extended to other targets with MAVIS.

Primary author: MARTINS, Fabrice (LUPM, CNRS, Montpellier University)

Presenter: MARTINS, Fabrice (LUPM, CNRS, Montpellier University)

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