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The star formation process on cloud-scales in nearby galaxies

Thursday, 17 October 2019 09:00 (25 minutes)

Invited talk

Abstract:
Where do stars form and how is their formation regulated across galactic disks are two critical questions for our understanding of the star formation process. High angular observations of nearby galaxies allow us to sample the star formation process across entire galactic disks reaching now
regularly the scales of the star-forming units, namely Giant Molecular Clouds (GMCs) and HII regions.
These data provide new insights on the molecular gas reservoir and its role in the star formation process as well as information on the importance of galactic components such as bulges, stellar bars, spiral arms and active galactic nuclei (AGN) in the conversion of cold (molecular) gas into stars. ALMA is fundamental for studying the molecular gas properties while the optical Integral Field Unit MUSE on the VLT is providing detailed information on the ionised gas and stellar population.

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Session Classification: Galaxies