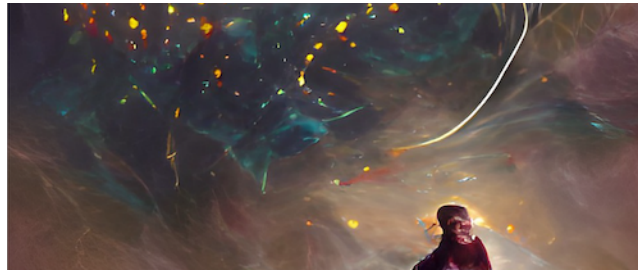


Cosmic Cartography 2022: Exploring the Cosmic Web and Large-Scale Structure



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MOONS at the VLT: current status and planning for galactic and extragalactic surveys

Wednesday, 9 March 2022 16:45 (30 minutes)

MOONS is the new Multi-Object Optical and Near-infrared Spectrograph under construction for the VLT. This remarkable instrument will allow large-scale spectroscopic campaigns needed to study the formation and evolution of stars and galaxies over the entire history of the Universe. I will present the current planning for Galactic and Extragalactic large survey foreseen for MOONS. On a timescale of 5-6 years MOONS will provide radial velocities and detailed chemical abundances for several million stars in the obscured regions of the Bulge and Disk, and beyond our Galaxy; as well as spectra for millions of galaxies at $1 < z < 10$ with all the key spectral diagnostics and environmental information, comparable to what SDSS has done in the local Universe. This will represent a unique data-mine for both for Galactic and Extragalactic studies for years to come. I will also present the current status of the instrument and possible synergies with the ELT.

Presenter: CIRASUOLO, Michele (European Southern Observatory)

Session Classification: Day 3 Afternoon