

First galaxies, Epoch of Reionization and galaxies evolution in the ELT Era: which science with MOSAIC (ILidia Tasca)

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The MOSAIC instrument, the only multi-objects spectrograph foreseen after first light on the ELT, will allow for an incredible leap forward in our understanding of how present-day galaxies formed and evolved.

While JWST will discover over a thousand sources in the patrol field of MOSAIC, the latter will carry out their spectroscopic follow up thanks to the high spectroscopic sensitivity, the large field of view and the high-multiplex.

MOSAIC will allow to detect and to study the very first galaxies. Their light will bring information on the reionisation epoch.

Despite the great progress made in the last decade to constrain cosmic reionisation and to assemble large samples of high-redshift galaxies, we desperately need to spectroscopically confirm their high-redshift nature and to study their physical properties. I will present the exiting new perspective opened by MOSAIC.”

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Track Classification: ELTs overview