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Presentation Requested: oral

Category: Assembly of Galaxies / Mass & Structure Evolution

Question: Other

Galaxy Growth since Cosmic Noon with CANDELS 3D-HST and KMOS-3D

The Hubble Space Telescope and integral-field spectrographs on the ground have offered us an unprecedented view of the internal physics within high-redshift galaxies. Exploiting the powerful synergy between multi-wavelength high-resolution imaging from CANDELS and spectroscopy from 3D-HST and KMOS^{3D}, I will present new insights on the resolved mass budget, stellar populations and kinematics in massive galaxies since $z \sim 2.5$. I will address the relation between bulge growth and quenching, and emphasize the importance of using both stellar and gaseous tracers to reconstruct the characteristic life cycle of galaxies. Finally, I will highlight pressing questions triggered by our observations that can only be addressed by studies of the cold gas reservoirs at cosmic noon.