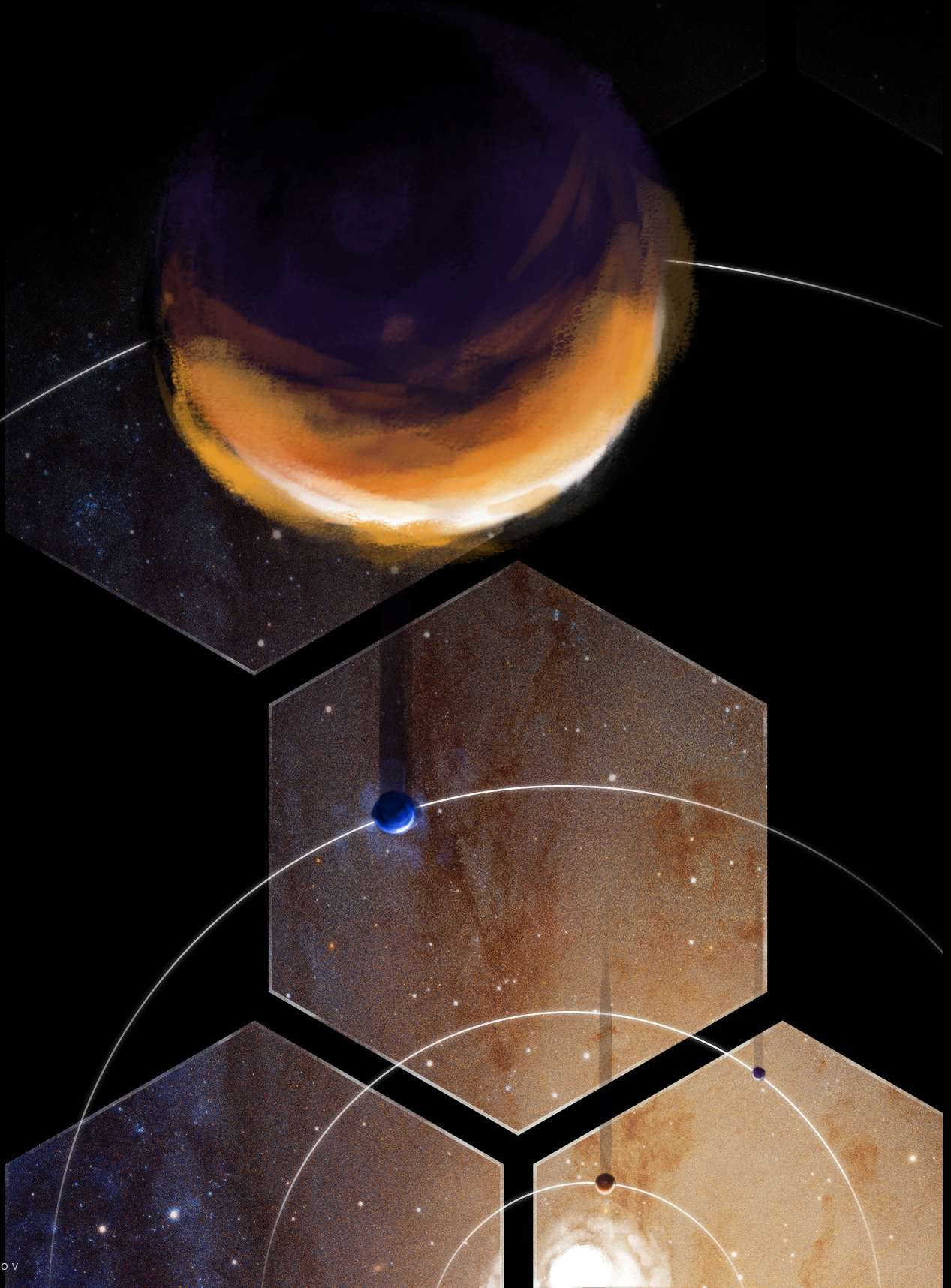
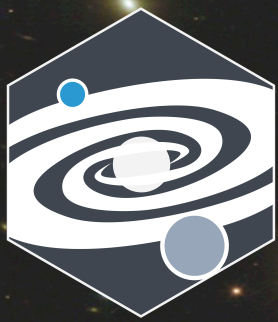




L U V O I R





L U V O I R

Large UV/Optical/Infrared Surveyor

Cosmic Origins

<http://asd.gsfc.nasa.gov/luvoir>

LUV O I R is a concept for a highly capable, guest observer-driven space observatory with tens to thousands of times the science grasp of HST. LUV O I R would enable transformative breakthroughs in Cosmic Origins science by combining a large aperture, broad wavelength coverage, and long operational lifetime with a suite of powerful instruments.

ECLIPS: Near-UV to near-IR coronagraph with imaging spectroscopy

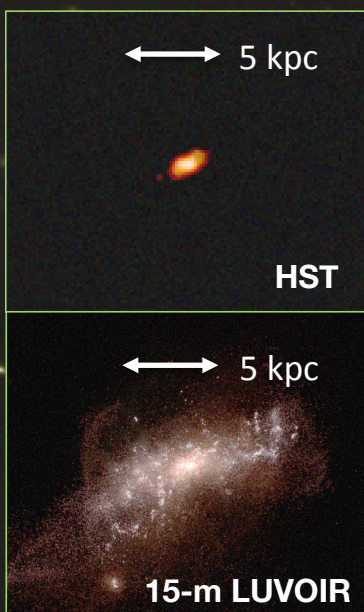
LUMOS: Far-UV to optical multi-object spectrograph and imager

HDI: Near-UV to near-IR high resolution wide-field camera

POLLUX: Far-UV to near-UV spectropolarimeter (European instrument)

Growth of Structure

Observe dwarfs from $z=0$ to reionization era

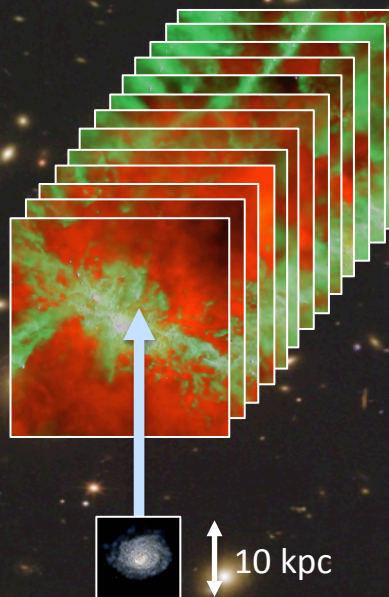


STScI / G. Snyder & M. Postman

Dwarf galaxy at $z=2$

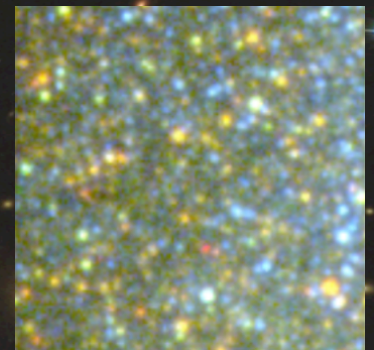
Galaxy Evolution

Map multi-phase gas around galaxies at many epochs

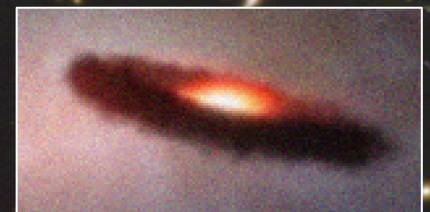


Stellar History

Stars and planetary systems in all environments



RGB Stars at 30 Mpc



PPDs at AU scales