

Title: Directly imaged exosystems at mid-infrared wavelengths with the JWST.

Abstract:

The James Webb Space Telescope enables the first observations at mid-infrared wavelengths with unprecedented sensitivity and angular resolution. Its Mid-Instrument MIRI cast a new vision of exoplanetary systems and opens a new field of investigation to characterize young giant exoplanets.

In this talk, I will focus on directly imaged systems observed as part of the MIRI GTO programs. These observations provide the first data for exoplanets at wavelengths longer than 5 microns and reveal some unexpected features.

The photometry and spectroscopic data allow us to get stronger constraints on the atmospheric properties, to detect new molecules and disentangle between different atmospherics' hypotheses, including the presence of circumplanetary disks.