

Atmospheres and interiors of exoplanets and brown dwarfs Schedule

Talks

Thursday 09h00-10h30

09h00: Welcome remarks (Vatsal Panwar)

09h02: Impact of Photochemical Haze on Chemistry in Hot-Jupiters: Preparing for the Era of ELT and Ariel (Mei Ting Mak)

09h14: Dwarfs of Fire and Ice: Studying irradiated white dwarf-brown dwarf binaries (Jenni French)

09h26: Investigating star-planet compositional ties for systems with host stars of varying composition (Daisy Turner)

09h38: Spot the Difference: a comparison of stellar contamination modelling in NIRISS/SOSS transmission spectra for two giant planet-hosting active K-dwarfs (Caitlyn Cullen)

09h50: Diurnal, latitudinal and seasonal variability of the meteoric metal layers in the atmosphere of Venus (Bianca Ceragioli)

10h02: When Stellar Winds Collide: The Impact of Corotating Interaction Regions on Exoplanetary Atmospheres (Online) (Rose Waugh)

10h14 Poster pop-up presentations (time here is for 4 posters and extra buffer time for the session)

Thursday 14h15-15h45

14h15 Poster pop-up presentations (time here is for 4 posters and extra buffer time for the session)

14h31: JWST Spectroscopic Variability and Auroral Modelling of Warm Ultracool Dwarf LSR J1835+3259 (Eleanor Pike)

14h43: Exploring the UV-Visible Transmission Spectrum of the Warm Super-Neptune HAT-P-26 b (Ailsa Marie Campbell)

14h55: The impact of hazes on Sub-Neptune interior conditions and evolution (Jacob Ayre)

15h07: Estimates of conductance of brown dwarf atmospheres using electron beam precipitation (Dominika Kubanek)

15h19: Detection and atmospheric characterisation of temperate Jupiters (Peter Wheatley)

15h31: Comparing telluric removal methods in their capability to recover injected exoplanet atmosphere signals with high resolution emission spectroscopy (Marcelo Aron Fetzner Keniger)

Posters

- Endogenous or Accreted? Interpreting O & C in sub-Neptune atmospheres (Anand Bhongade)
- Most Rocky Sub-Neptunes are Molten: Mapping the Solidification Shoreline for Gas Dwarf Exoplanets (Robb Calder)
- Making Waves or Seeing Spots? Placing GJ 486b on the Cosmic Shoreline with JWST/NIRISS. (Sten Vermeiren)
- Linking general circulation models and observed limb asymmetries in giant exoplanets with transmission strings (Charlotte Fairman)
- Assessing the role of self-broadening in exoplanet atmospheres (Matthew Clay)
- The First Optical Transmission Spectrum of the inflated Hot Jupiter WASP-168b (Matthew Godfrey)
- Exploring Isotopic Ratios in the Atmosphere of the T-Dwarf HD 19467 b (Rhys Collins)
- Survival of Anyhydrobiotic Tardigrade *Ramazzottius cf. varieornatus* in a Martian Simulation Chamber (Gillian Pearce)