

**Session Program**

**6-10 Jun 2022**

**NBIA Workshop on Radiation Transfer in  
Astrophysics**

***Exoplanetary Atmospheres***

# Tuesday 7 June

09:00

## Exoplanetary Atmospheres

### Session

09:00–09:30

### The Atmospheres of Exoplanets: Albedos and Phase Curves of Celestial Bodies

#### Speaker

Kevin Heng

09:30–09:50

### Probing the upper atmospheres of exoplanets and atmospheric escape with NLTE radiative transfer

#### Speaker

Antonija Oklopčič

09:50–10:10

### NLTE effects in the atmosphere of the ultra-hot Jupiter KELT-9b

#### Speaker

Dr Mitchell Young

10:10–11:00

### Coffee Break

11:00–11:30

### Along the Line of Sight: Changing Chemical States in Cloud Forming Exoplanet Atmospheres

#### Speakers

Christiane Helling, Dominic Samra

11:30–11:50

### Improving planetary atmosphere characterization by 3D NLTE modeling of the stellar centre-to-limb effect

#### Speaker

Gloria Canocchi

11:50–12:10

### Why does thermodynamic equilibrium matter when measuring transition probabilities?

#### Speaker

Maria Teresa Belmonte

12:10