

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 Oklopčić

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