Session Program

11–15 Jan 2027

From Gaia to GaiaNIR - Science from Precision Astrometry Across the Universe and Beyond the Extinction Barrier

Stars and planets

Tuesday 12 January

16:30

Stars and planets: Exoplanets

Session

16:30–17:00 **Exoplanet demographics in the Gaia era and beyond**

Speaker
Dr Daniel Yahalomi

17:00–17:20

Fast and realistic exoplanet population synthesis model for the Solar Neighbourhood and the Milky Way.

Speaker
Chloé Padois

17:20–17:40

The WEAVE-TwiLight-Survey: From Novel Observing Strategies to Stellar Characterisation

Speaker
Thomas Hajnik

17:40–17:55 **Resolved binaries with Gaia DR4**

Speaker
Karan Dsilva

17:55

Wednesday 13 January

09:00

Stars and planets: Star clusters

Session

09:00–09:30 **The golden age of star cluster science: we owe it all to Gaia**

Speaker
Dr Emily Hunt

09:30–09:50 **Updated cluster ages with Gaia DR3**

Speaker
Ioannis Nektarios Kallimanis

09:50–10:05 **Star Cluster Tidal Tails in the Gaia Era**

Speaker
Vikrant Jadhav

10:05–10:20 **Unresolved Multiplicity: A Missing Parameter in Stellar Age Inference**

Speaker
Sagar Malhotra

10:20–10:35
Episodic accretion of Young Stellar Objects: results from the Gaia Science Alerts

Speaker
Zsofia Nagy

10:35

11:05

Stars and planets: Stellar physics across the Hertzsprung-Russell diagram I

Session

11:05–11:35 **Stellar physics with Gaia**

Speaker
Orlagh Creevey

11:35–11:55
Exploring AGB Carbon Stars: From Static Inference to Dynamical Characterization

Speaker
Dr Alessio Liberatori

11:55–12:15
Star formation in the Gaia era: recent discoveries, DR4 challenges, and the GaiaNIR horizon

Speaker
Dr Núria Miret Roig

12:15–12:30
The view of Orion in the age of Gaia DR3: A high-resolution age map and star formation history

Speaker
Alena Rottensteiner

12:30–12:45

The G-AGB Method: Gaia-Based Distances to 235,000 Galactic Asymptotic Giant Branch Stars and Revelations About Galactic Structure

Speaker
Rajorshi Bhattacharya

12:45–13:00

Hide and seek with Gaia: where are the RR Lyrae in binaries? Results from Gaia DR3, an update from Gaia DR4, and a look forward to GaiaNIR

Speaker
Giuliano Iorio

13:00

Thursday 14 January

09:00

Stars and planets: Stellar physics across the Hertzsprung-Russell diagram II

Session

09:00–09:15 **The new Gaia DR4 catalogue of variable young stellar objects**

Speaker
Marc Audard

09:15–09:30 **CNS6: mapping the astrometric gaps in the 25 pc census**

Speaker
Alex Golovin

09:30–09:45
Galactic structure and massive star formation with a Gaia DR3 census of OB-type stars within 2 kpc

Speaker
Alexis Quintana

09:45–10:00 **Interstellar extinction of Galactic Cepheids from neighboring stars**

Speaker
Wilma Kiviaho

10:00