

Session Program

Oct 19 - 22, 2026

3rd international Workshop on "AI + Astronomy: Models, Data, Discovery"

Session 1 : Astronomy Foundation model

Zhejiang Lab, Main Building
2880 Wenyi West Road, Yuhang District, Hangzhou

Mon, October 19

10:55 AM

Session 1 : Astronomy Foundation model

Session | **Location:** Academic Exchange Center of Zhejiang lab, Zhijiang Hall | **Convener:** Jean-Paul Kneib

10:55 – 11:10 AM **Novel Approaches for Cosmological Survey Analysis**

Speaker

Prof. Alexandre Refregier

11:10 – 11:25 AM **Towards AI Foundation Models for Large-Scale Structure Cosmology**

Speaker

Prof. Tomasz Kacprzak

11:25 – 11:40 AM **Machine Learning for Cosmological Inference**

Speaker

Leander Thiele

12:10 PM

1:40 PM

Session 1 : Astronomy Foundation model

Session | **Location:** Academic Exchange Center of Zhejianglab, Zhijiang Hall | **Convener:** ALi Luo

1:40 – 1:56 PM **Fuzzy Dark Matter Simulations with Physics-Informed Generative Networks**

Speaker

Prof. Emma Tolley

2:12 – 2:28 PM **Scientific validation of deep generation model of galaxy images**

Speaker

Shiyin Shen

2:28 – 2:44 PM **Code-specialized LLMs in HPC: a case study in radio-astronomy pipeline acceleration**

Speaker

Hamza Chouh

2:44 – 3:00 PM **Domain-Informed Representation Learning for Astronomical Light Curves**

Speaker

Yicheng Rui

3:00 PM