

Session Program

Oct 19 - 22, 2026

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

Session 4

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

Tue, October 20

1:30 PM

Session 4: AI for Dynamics and Physical Inference

Session | Location: Academic Exchange Center of Zhejiang lab, Zhijiang Hall | Convener: Shiyin Shen

1:30 – 1:45 PM

Emulating the complex galactic-scale orbital dynamics of LISA massive black hole pairs with normalizing flows

Speaker

Pedro R. Capelo

Location

Academic Exchange Center of Zhejiang lab, Zhijiang Hall

1:45 – 2:00 PM

Domain-Informed Representation Learning for Astronomical Light Curves

Speaker

Yicheng Rui

2:00 – 2:15 PM

An atomic model for stellar atmosphere studies---A physical-AI use case

Speaker

Chao Liu

Location

Academic Exchange Center of Zhejiang lab, Zhijiang Hall

2:15 – 2:30 PM

Lessons from Physics-Informed Neural Networks: Inverse Problems Across Equations of State

Speaker

Pau Solé-Vilà

Location

Academic Exchange Center of Zhejiang lab, Zhijiang Hall

2:30 PM