

## **Session Program**

30 March 2026 to 2 April 2026

# **AI + Astronomy: Models, Data, Discovery**

## ***Session 3***

Bernoulli Center, EPFL Campus, GA 321  
GA Building - Station 5 - 1015 Lausanne

# Wednesday 1 April

09:00

## Session 3: Astronomical Large Models

Session | Location: Bernoulli Center, EPFL Campus, GA 321, GA Building - Station 5 - 1015 Lausanne

09:00–09:20 **Mapping the Dark Universe with CSST**

Speaker

Prof. Ran Li

09:20–09:35 **Physics informed machine learning for Wave Dark Matter Simulations**

Speaker

Ashutosh Kumar Mishra

09:35–09:50

**Increasing the Precision of Surrogate Models for Weak Lensing Mass Maps with Flow Matching**

Speaker

Guangjian Li

09:50–10:05 **Simulating Cold Dark Matter with Physics-Informed Kolmogorov-Arnold Networks**

Speaker

Nicolas Cerardi

10:05–10:20

**Deep learning reveals evidence for self-interacting dark matter in the massive galaxy cluster, A2744**

Speaker

David Harvey

10:20