

Session Program

May 20 – 23, 2025



Paris workshop on Bayesian Deep Learning for Cosmology and Time Domain Astrophysics 3rd ed.

Static sky cosmology

Université Paris Cité, Buffon Amphitheater
15 rue Hélène Brion 75013 Paris

Wed, May 21

2:00 PM

Static sky cosmology

Session | Location: Université Paris Cité, Buffon Amphitheater, 15 rue Hélène Brion 75013 Paris

2:00 – 3:00 PM

Using AI to probe the invisible universe: machine learning methods for weak gravitational lensing

Speaker

Samuel Farrens

3:00 – 3:30 PM

Break

3:30 – 3:50 PM

Outliers and Hidden Relations in Galaxy Spectroscopy and Photometry

Speaker

Peter Melchior

3:50 – 4:10 PM

Pixel level Bayesian analysis of PSFs and Strong Gravitational Lenses

Speaker

Connor Stone

4:10 – 4:30 PM

Learning to Deblend Galaxies from Blended Observations with Diffusion Models

Speaker

Benjamin Remy

4:30 PM

Fri, May 23

9:05 AM

Static sky cosmology

Session | Location: Université Paris Cité, Buffon Amphitheater, 15 rue Hélène Brion 75013 Paris

9:05 – 9:25 AM

Probabilistic inference of galaxy properties using multi-modal variational autoencoders

Speaker

Kirill Grishin

9:25 – 9:45 AM

Interpretable Machine Learning for Constraining Self-Interacting Dark Matter in Galaxy Clusters

Speaker

Ethan Tregidga

9:45 – 10:05 AM

Hybrid Analytical-Deep Solver for reconstructing maps in Cosmology

Speaker

Leonora Kardum

10:05 – 10:25 AM

A Comprehensive Analysis of Beyond Λ CDM with Cosmological Data

Speaker

Dr Shambel Akalu

10:25 – 10:55 AM

coffee break

10:55 AM – 12:10 PM

Concluding Talk - Bayesian Analysis of Multi-Channel Astronomical Data: From Time Domain to Static Sciences

Speaker

Biswajit Biswas

12:10 PM