

## **Thursday 17 July**

09:00

## III day: Alternative probes

**Session** | Location:

09:00-09:30

Field Level Inference with Fully Differentiable Hydrodynamical Physics

Speaker

Benjamin Horowitz

Location

09:30-10:00

Field-level inference and the path towards percent-level constraint on growth of structure from spectroscopic surveys

Speaker

Minh Nguyen

Location

10:00-10:30

Benchmarking field-level inference from galaxy surveys and its application to primordial non-Gaussianity analysis

Speaker

Hugo Simon-Onfroy

Location

10:30-11:00 Coffe break

11:00-11:30

Going beyond the power spectrum: an analysis of BOSS & DESI galaxy clustering using the wavelet scattering transform.

Speaker

Georgios Valogiannis

Location

11:30-12:00

**Boosting HI-Galaxy Cross-Clustering Signal through Higher-Order Cross-Correlations** 

Speaker

Eishica Chand

Location

12:00-12:30 Cosmological constraints with Vornoi Volume Function

Speaker

Ms Saee Dhawalikar

Location

12:30-13:00

**Cosmic Voids: Unlocking Novel Statistics Completing Galaxy Clustering** 

Speaker

Giovanni Verza

Location

13:00-14:30 Lunch

14:30-15:00 Perspective on simulations for future clustering analysis

Speaker

Dr Carmelita Carbone

Location

15:00–15:30 Cosmology in the era of Al agents

Speaker

Villaescusa

Location

15:30-16:00

Efficient simulation of galaxy lightcones and associated radiation fields

Speaker

Andrei Albert Mesinger

Location

16:00-16:30 **Coffe break** 

16:30-17:00

Cosmological probes with cosmic voids: advanced modelling and the latest results

Speaker

András Kovács

Location

17:00-17:30 Extracting cosmological information from the shape of cosmic voids

Speaker

Giulia Degni

Location

17:30-18:00

Unveiling Cosmic Voids Through Tracer Dynamics: A Novel Approach for Large-Scale Structure Analyses

Speaker

Simone Sartori

Location

21:25