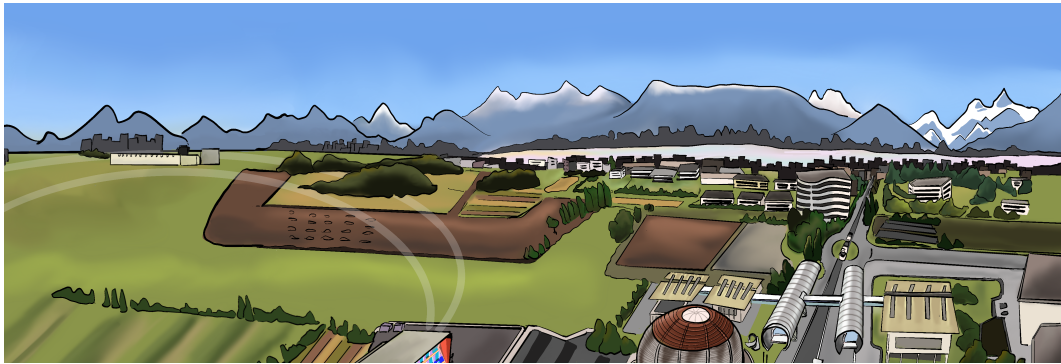


Session Program

1-5 Sept 2025



Invisibles25 Workshop

Cosmology

CERN, 500/1-001 - Main Auditorium

Tuesday 2 September

09:30

Cosmology

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Convener:** Clara Murgui Galvez

09:30–09:55 **Leptogenesis review**

Speaker

Stefan Sandner

10:00–10:25 **Cosmic Magnetic Fields**

Speaker

Alberto Roper Pol

10:30–10:35 **BBN disintegration limits from ν -injections.**

Speaker

Sara Bianco

10:35–10:40

Standard Model Baryon Number Violation at Zero Temperature from Higgs Bubble Collisions

Speaker

Martina Cataldi

10:40–10:45 **Is the SM CP Violation ever enough to produce the BAU?**

Speaker

Martha Ulloa Calzonzin

10:45

11:30

Cosmology

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Convener:** Clara Murgui Galvez

11:30–11:55

The nHz Gravitational Wave Background: Evidence and Open Questions

Speaker

Andrea Mitridate

12:00–12:05

Kick it like DESI: PNGB quintessence with a dynamically generated initial velocity

Speaker

Maximilian Volker Berbig

12:05–12:10 **The Affleck-Dine Curvaton**

Speaker

Takuya Okawa

12:10–12:15

Inferring Cosmological Parameters from the Cross-Correlation of Gravitational Wave and Electromagnetic Observations

Speaker
Giona Sala

12:15-12:20 **Shaping dark photon spectral distortions**

Speaker
Xucheng Gan

12:20-12:25

Cosmological gravitational particle production: Starobinsky vs Bogolyubov, uncertainties, and issues

Speaker
Duarte Da Silva Feiteira

12:25-12:30 **Lepton Flavour Asymmetries: from the early Universe to BBN**

Speaker
Mario Fernandez Navarro

12:30

14:00

Cosmology

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Convener:** Miguel Escudero Abenza

14:00-14:25

Dark Energy theory and phenomenology in the precision cosmology era

Speaker
George Alestas

14:30-14:55 **Hubble tension: a theory perspective**

Speaker
Julien Lesgourgues

15:00

15:45

Cosmology

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Convener:** Miguel Escudero Abenza

15:45-15:50 **Non-singular solutions to the Boltzmann equation with a fluid Ansatz**

Speaker
Enrico Perboni

15:50-15:55 **Limits of EFTs at finite temperature for strong phase transitions**

Speaker
Fabio Bernardo

15:55-16:00

High-Frequency Gravitational Waves from Phase Transitions in Nascent Neutron Stars

Speaker
Katarina Bleau

16:00-16:25 **Mapping out the Dark Matter in the Milky Way with Stars**

Speaker
Lina Necib

16:30-16:55 **Axion cosmology**

17:00

Speaker
Marco Gorghetto