

# **Monday 12 September**

14:00

### **Cosmology & Gravitational Waves: I**

Session | Location: CERN, 13/2-005 | Convener: Marco Drewes

14:00-14:20

A strong first order electroweak phase transition from varying yukawas at the weak scale

Speaker

**Iason Baldes** 

14:20-14:40

CP-violation and baryon-asymmetry from varying Yukawas at the weak scale.

Speaker

Sebastian Bruggisser

14:40-15:00

Falsifying Baryogenesis Models via Observation of Lepton Number Violation

Speaker

Frank Deppisch

15:00-15:20 Higgs doublet decay as the origin of the baryon asymmetry

Speaker

Dr Daniele Teresi

15:20-15:40

Leptogenesis from Oscillations of Heavy Neutrinos with Large Mixing Angles

Speaker

Mr Juraj Klaric

15:40-16:00 Challenges for leptogenesis at the TeV scale

Speaker

Enrico Nardi

16:00

# **Tuesday 13 September**

14:00

### Cosmology & Gravitational Waves: II

Session | Location: CERN, 6/2-024 - BE Auditorium Meyrin | Convener: David Richard Harvey

14:00-14:20 Originating the hot Big Bang from the Standard Model Higgs

Speaker

Daniel G. Figueroa

14:20-14:40 Gravitational waves from oscillons after inflation

Speaker

Francesco Cefalà

14:40-15:00 Probing BSM physics at eLISA

**Speaker** 

Germano Nardini

15:00-15:20

Pick any two? Baryogenesis, gravitational waves and thermal phase transitions

Speaker

David Weir

15:20-15:40

Probing the nature of the electroweak phase transition/baryogenesis from the particle colliders to the gravitational wave detectors

Speaker

Fa Peng Huang

15:40-16:00

Probing the expansion of the Universe using gravitational wave standard sirens at eLISA

Speaker

Chiara Caprini

16:00

## **Thursday 15 September**

14:00

### Cosmology & Gravitational Waves: III

Session | Location: CERN, 500/1-001 - Main Auditorium | Convener: David Richard Harvey

14:00-14:20 Towards a more precise prediction of the dark matter relic density

Speaker

Björn Herrmann

14:20-14:40 Tachyonic Reheating to a Higgs Boson

Speaker

Djuna Croon

14:40-15:00 Solving five problems of particle physics and cosmology in one stroke

Speaker

Guillermo Ballesteros Martinez

15:00-15:20

From warm dark matter to dark radiation: General cosmological constraints on a second dark component in the Universe

Speaker

Mrs Roberta Diamanti

15:20-15:40 Including massive neutrinos in nonlinear perturbation theory

Speaker

Dr Helene Dupuy

15:40-16:00

Challenges to Cosmic Self-Acceleration in Modified Gravity from Gravitational Waves and Large-Scale Structure

Speaker

Dr Lucas Lombriser

16:0016:30

## Cosmology & Gravitational Waves: IV

Session | Location: CERN, 4/3-006 - TH Conference Room | Convener: Damir Buskulic

16:30-16:50

The detection of binary black holes in Advanced LIGO's first scientific run

Speaker

Dr Edward Porter

16:50-17:10

Parameter inference for compact binaries with the gravitational-wave observatory Advanced LIGO

Speaker

Vivien RAYMOND

17:10-17:30

Advanced LIGO First Light: Multimessenger Astrophysics at the Birth of Gravitational-Wave Observatory

#### Speaker

Leo Singer

17:30-17:50

Searches for continuous gravitational waves in the advanced detector era

#### Speaker

Graham Woan

17:50-18:10 Tests of general relativity with gravitational waves

Speaker

Dr Chris Van Den Broeck

18:10-18:30 The search for a stochastic background of gravitational waves

Speaker

Dr Giancarlo Cella

18:30