

Session Program

28 November 2016 to 2 December 2016

CosPA 2016

Inflation and early universe cosmology

Monday 28 November

16:10

Inflation and early universe cosmology

Session | Location: SNH, 3003 | Convener: Sujeet Akula

16:10-16:30

Primordial massive gravitational waves in the squeezed vacuum state

Speaker

Ms Malsawmtluangi Naulak

16:30-16:50

Electroweak scale genesis by dynamical scale symmetry breaking and strong scale phase transition in the early universe

Speaker

Jisuke Kubo

16:50-17:10

Gravitational Waves from Low Temperature Phase Transitions

Speaker

Adrian Manning

17:10-17:30

Probing physics behind the electroweak symmetry breaking at future gravitational wave interferometers and future collider experiments

Speaker

Mitsuru Kakizaki

17:30

Tuesday 29 November

14:00

Inflation and early universe cosmology

Session | **Location:** SNH, 4001 | **Convener:** Kazunori Kohri

14:00–14:20

Inflation from Supergravity with Gauged R-symmetry in de Sitter Vacuum

Speaker

Dr Rob Kneops

14:20–14:40

Multi-phase inflation and endlessly flat scalar potentials

Speaker

Dr Michal Artymowski

14:40–15:00

Ahead of the hunt: leading small field inflationary potential models.

Speaker

Mr Ira Wolfson

15:00–15:20

Violent preheating in inflation with nonminimal coupling

Speaker

Dr Ryusuke Jinno

15:20

16:10

Inflation and early universe cosmology

Session | **Location:** SNH, 4001 | **Convener:** Archil Kobakhidze

16:10–16:30

Blue tensor spectra with slightly parity-violated from axion-gauge couplings

Speaker

Ippei Obata

16:30–16:50

Naturalness of the relaxion mechanism

Speaker

Dr Andrew Fowlie

16:50–17:10

Gravitational waves at aLIGO and vacuum stability with a scalar singlet extension of the Standard Model

Speaker

Csaba Balazs

17:10–17:30

Gravitational Wave Instabilities in the Cosmic Neutrino Background

Speaker

Neil Barrie

17:30

Thursday 1 December

14:00

Inflation and early universe cosmology

Session | **Location:** SNH, 4001 | **Convener:** Andrew Fowlie

14:00–14:20

Testing the low scale seesaw and leptogenesis

Speaker

Dario Gueter

14:20–14:40

Electroweak baryogenesis in the Z3-invariant NMSSM

Speaker

Graham White

14:40–15:00

A Strong Electroweak Phase Transition from the Inflaton Field

Speaker

Tommi Tenkanen

15:00–15:20

Efficient perturbative determination of bubble wall profiles

Speaker

Dr Sujeet Akula

15:20–15:40

The effects of monopoles on the electroweak phase transition

Speaker

Suntharan Arunasalam

15:40

16:10

Inflation and early universe cosmology

Session | **Location:** SNH, 4001 | **Convener:** Geraint Lewis

16:10–16:30

Resurrection of large lepton number asymmetries and their cosmological implications

Speaker

Wanil Park

16:30–16:50

Adiabatic Invariance of I-balls/Oscillons

Speaker

Naoyuki Takeda

16:50–17:10

Production of axion CDM from strings and domain-walls

Speaker

Dr Toyokazu Sekiguchi

17:10–17:30

Natural Inflation with Hidden Scale Invariance

Speaker

Shelley Liang

17:30