

Session Program

17-21 Jul 2023



SUSY 2023

Particle cosmology: Theory and Experiment

University of Southampton Highfield Campus, Building 100, Highfield Campus
Website : <https://www.southampton.ac.uk/student-life/campuses/highfield>

Monday 17 July

16:00

Particle cosmology: Theory and Experiment

Session | Location: B46/2003

16:00–16:20

Neutrino mass from cosmology: the impact of long-ranged interactions

Speaker

Ivan Esteban

16:20–16:40

Exploring Left-Right symmetry in Cosmic Microwave Background

Speaker

Dr Chayan Majumdar

16:40–17:00

A global analysis of decaying cosmological ALPs

Speaker

Dr Tomas Gonzalo

17:00–17:20

CMB birefringence from axion strings

Speaker

Andrew Long

17:20

17:40

Particle cosmology: Theory and Experiment

Session | Location: B46/2003

17:40–18:00

Narrowing the mass range of ultra-light dark matter

Speaker

Prof. Elisa G. M. Ferreira

18:00–18:20

Towards the Detection of Ultralight Dark Photon Dark Matter Using Optomechanical Sensors

Speaker

Dorian Amaral

18:20–18:40

Revisiting Affleck-Dine Leptogenesis with light sleptons

Speaker

Juntaro Wada

18:40–19:00

Electroweak Phase Transition and Prospects of Detecting Gravitational Waves in an Extended Supersymmetric Model

Speaker

Mr Pankaj Borah

19:00

Tuesday 18 July

16:00

Particle cosmology: Theory and Experiment

Session | Location: B46/2003

16:00–16:20 Dark matter searches from CMS

Speakers

Laurent Thomas, Laurent Thomas

16:20–16:40

Halo-independent bounds on the non-relativistic effective theory of WIMP-nucleon scattering from direct detection and neutrino observations

Speaker

Dr Arpan Kar

16:40–17:00 FIMPs @ direct detection

Speaker

Francesco Costa

17:00–17:20

Dark matter indirect detection limits from complete annihilation patterns

Speaker

Dr Björn Herrmann

17:20

17:40

Particle cosmology: Theory and Experiment

Session | Location: B46/2003

17:40–18:00 Minimal FIMP models during reheating and inflationary constraints

Speaker

Mr Emanuele Copello

18:00–18:20 Primordial Black Holes and Stochastic Inflation beyond slow roll

Speaker

Swagat Saurav Mishra

18:20–18:40 Flavor Leptogenesis During Reheating Era

Speaker

Rishav Roshan

18:40–19:00 Relativistic expansion of bubbles and EW Baryogenesis

Speaker

Giulio Barni

19:00

Wednesday 19 July

16:00

Particle cosmology: Theory and Experiment

Session | Location: B46/2003

16:00–16:20

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16:20–16:40

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16:40–17:00

Assessing the Role of Finite Temperature Corrections in Dark Matter Freeze-In

Speaker

Emanuele Copello

17:00–17:20

Phase transitions in strongly-coupled gauge theories and glueball Dark Matter

Speaker

Roman Pasechnik

17:20

17:40

Particle cosmology: Theory and Experiment

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17:40–18:00

Higgs Balls: Building Non-Thermal Topological Solitons with the Higgs Field

Speaker

Lauren Pearce

18:00–18:20

Audible Gravitational Echoes of New Physics

Speaker

Antonio Morais

18:20–18:40

Gravitational waves from first order phase transitions

Speaker

Peter Athron

18:40–19:00

Pseudo-monopoles from dark topological defects

Speaker

Akifumi Chitose

19:00

Friday 21 July

14:00

Particle cosmology: Theory and Experiment

Session | Location: B46/2003

14:00–14:20

FOEWPT, THCs and GWs in the 2HDM

Speaker

Sven Heinemeyer

14:20–14:40

Lepton asymmetry from Q-balls and enhancement of second-order gravitational waves

Speaker

Prof. Masahiro Kawasaki

14:40–15:00

Towards distinguishing Dirac from Majorana neutrino mass with gravitational waves

Speaker

Moinul Rahat

15:00–15:20

Did NANOGrav hear the sound of the Universe boiling?

Speaker

Graham White

15:20–15:40

Probing Leptogenesis with Gravitational Waves

Speaker

Martin Mojahed

15:40–16:00

New Bounds on Magnetic Monopoles from Primordial Magnetic Fields

Speaker

Daniele Perri

16:00