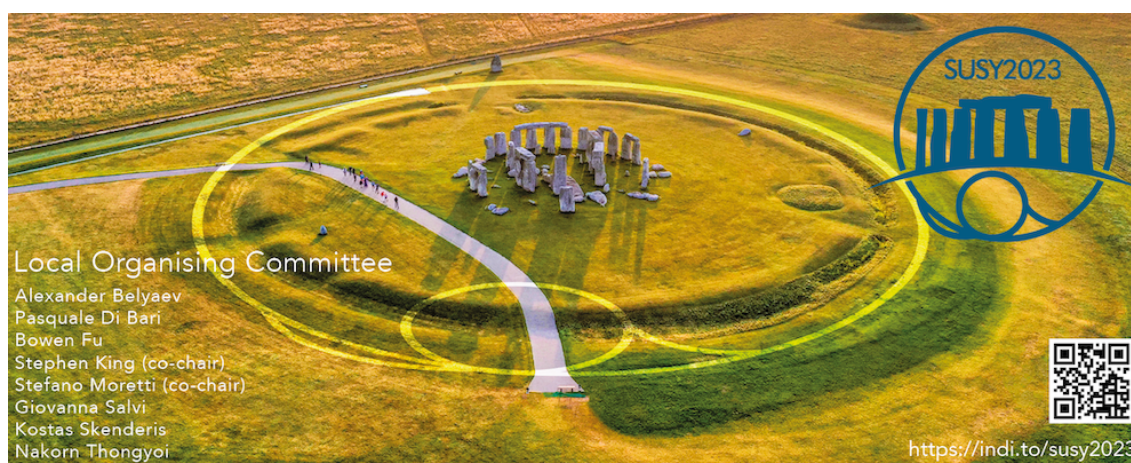


Session Program

17-21 Jul 2023



SUSY 2023

SUSY: Phenomenology 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

SUSY: Phenomenology and Experiment

Session | **Location:** B100/1001

16:00–16:20

Searches for strongly-interacting supersymmetric particles

Speaker

Julien Maurer

16:20–16:40

Dark Sector Showers in the Lund Jet Plane

Speaker

Christiane Scherb

16:40–17:00

Redefining Performance: New Techniques for ATLAS Jet & MET Calibration

Speaker

Michael Holzbock

17:00–17:20

Improving ATLAS Hadronic Object Performance with ML/AI Algorithms

Speaker

Tobias Fitschen

17:20

17:40

SUSY: Phenomenology and Experiment

Session | **Location:** B100/1001

17:40–18:00

Searches for Supersymmetry with heavy object tagging

Speaker

Giovanna Salvi

18:00–18:20

NNLL-fast 2.0: Updated Predictions for Squark and Gluino Production at the LHC with $\sqrt{s} = 13.6$ TeV

Speaker

Dr Christoph Borschensky

18:20–18:40

Combinations of SUSY searches

Speaker

Alexander Khanov

18:40–19:00

19:00

Tuesday 18 July

16:00

SUSY: Phenomenology and Experiment

Session | Location: B100/1001

16:00–16:20

Searches for electroweak production of SUSY particles with the CMS experiment

Speaker

Pablo Matorras-Cuevas

16:20–16:40

Applying Machine Learning Techniques to Searches for Lepton-Partner Pair-Production at Intermediate Mass Gap at the Large Hadron Collider

Speaker

Jason Kumar

16:40–17:00

Muon and electron ($g - 2$) anomalies with non-holomorphic interactions in MSSM

Speaker

Utpal Chattopadhyay

17:00–17:20

LHC constraints on SUSY with a light gravitino

Speaker

Dr Tomas Gonzalo

17:20

17:40

SUSY: Phenomenology and Experiment

Session | Location: B100/1001

17:40–18:00

Minimal Nambu-Goldstone-Higgs model in supersymmetric SU(5) revisited

Speaker

Shihwen Hor

18:00–18:20

Constraining the electroweakino sector of the MSSM through the combination of orthogonal LHC searches

Speaker

Timothee PASCAL

18:20–18:40

FlexibleSUSY Developments

Speaker

Peter Athron

18:40–19:00

Search for R-parity violating supersymmetry

Speaker

Evelyn Jean Thomson

19:00

Wednesday 19 July

16:00

SUSY: Phenomenology and Experiment

Session | Location: B100/1001

16:00–16:20

Search for new physics with long-lived and unconventional signatures in CMS

Speaker

Christina Wenlu Wang

16:20–16:40

Searches for BSM physics using challenging and long-lived signatures with the ATLAS detector

Speaker

Sebastian Olivares

16:40–17:00

Precise Estimate of Chargino Decay

Speaker

Yuhei NAKAYAMA

17:00–17:20

A new picture for scalar boson superpartners, with reduced cross-sections and modified experimental signatures

Speaker

Prof. Roland Allen

17:20

17:40

SUSY: Phenomenology and Experiment

Session | Location: B100/1001

17:40–18:00

Searches for Dark Matter with the ATLAS Experiment at the LHC

Speaker

Danijela Bogavac

18:00–18:20

Dark Matter Direct Detection and Collider Search Complementarity

Speakers

Dr Ipsita Saha, Manimala Chakraborti, Sven Heinemeyer

18:20–18:40

Revisiting the slepton coannihilation model with light higgsino

Speaker

Atsuya Niki

18:40–19:00

Automated Choice for the Best Renormalization Scheme in the Chargino/Neutralino Sector

Speakers

Federico Ignacio Von Der Pahlen, Sven Heinemeyer

19:00

Friday 21 July

14:00

SUSY: Phenomenology and Experiment

Session | Location: B100/1001

14:00–14:20 Searches for GMSB with higgsino next-to-lightest SUSY particles

Speaker

Toshi Sumida

14:20–14:40 Searches for compressed SUSY scenarios with the CMS experiment

Speaker

Samuel Louis Bein

14:40–15:00 Prospects of Heavy Higgs scalar in the natural SUSY at LHC upgrades

Speaker

KAIRUI ZHANG

15:00–15:20 Searches for weakly-interacting SUSY particles

Speaker

Shuhui Huang

15:20–15:40 .

15:40–16:00 .

16:00