

Session Program

10-14 Jun 2024



SUSY24: The 31st International Conference on Supersymmetry and Unification of Fundamental Interactions

Alternatives to SUSY / Non-SUSY BSM

IFT (Madrid, Spain)

Instituto de Física Teórica / Institute of Theoretical Physics (Madrid, Spain) website: <https://www.ift.uam-csic.es/en>

Monday 10 June

15:05

Alternatives to SUSY / Non-SUSY BSM

Session | Location: Sala Gris III

15:05-15:25 **GUTs - how common are they?**

Speaker

Johannes Herms

15:25-15:45

Proton decay, a fresh look into their RG effects and possible UV models

Speaker

Arnau Bas i Beneito

15:45-16:05

Quantisation Across Bubble Wall and Friction

Speaker

Giulio Barni

16:05-16:25

Quantum Entanglement and Bell Inequality Violation in Semi-Leptonic Top Decays

Speaker

Matthew Low

16:25-16:45

Searches for new phenomena in final states with 3rd generation quarks using the ATLAS detector

Speaker

Daniela Katherine Paredes Hernandez

16:45

17:10

Alternatives to SUSY / Non-SUSY BSM

Session | Location: Sala Gris III

17:10-17:30

Neutral triple gauge boson vertices and fermionic UV models

Speaker

Dr Martin Konrad Hirsch

17:30-17:50

The Standard Model Gauge Group, SMEFT, and Generalized Symmetries

Speaker

Ling-Xiao Xu

17:50-18:10

Phenomenology of an unusual Composite Higgs model

Speaker

Werner Porod

18:10-18:30

Searches for new physics with leptons using the ATLAS detector

Speaker

Simon Florian Koch

18:50

Tuesday 11 June

15:05

Alternatives to SUSY / Non-SUSY BSM

Session | **Location:** Sala Gris III

15:05-15:25

Uncovering new physics through two-particle angular correlations in high-energy collisions

Speaker

Imanol Corredoira

15:25-15:45

Probing GHU models at the ILC with di-quark AFB at c.m.e. above the Z mass

Speaker

Jesus Pedro Marquez Hernandez

15:45-16:05

Leptophilic Z' bosons at the FCC-ee

Speaker

Baibhab Pattnaik

16:05-16:25

NPointFunctions: computation of physical quantities in BSM theories in FlexibleSUSY

Speaker

Uladzimir Khasianeovich

16:25-16:45

Optimal extraction of New Physics

Speaker

Dr Jayita Lahiri

16:45

Thursday 13 June

15:05

Alternatives to SUSY / Non-SUSY BSM

Session | **Location:** Sala Gris III

15:05-15:25

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

Speaker

Alexander Lory

15:25-15:45

Searches in CMS for long-lived particles and other non-conventional signatures

Speaker

Petar Maksimovic

15:45-16:05

Searching for New Physics with the MoEDAL Experiment at the LHC.

Speaker

Oscar Manuel Vives Garcia

16:05-16:25

Exploring mass limits of High Electrically Charged Objects through Dyson-Schwinger resummation

Speaker

Emanuela Musumeci

16:25-16:45

Searches for new phenomena in hadronic final states using the ATLAS detector

Speaker

Carlos Moreno Martinez

16:45

Friday 14 June

12:00

Alternatives to SUSY / Non-SUSY BSM

Session | **Location:** Sala Gris III

12:00-12:20

ALPs or HNLs? Pick two!

Speaker

Jean-Loup Tastet

12:20-12:40

Searching for New Physics with MoEDAL's MAPP-1 and MAPP-2 Detectors

Speaker

Emanuela Musumeci

12:40-13:00

Probing for light new particles with the LUXE experiment

Speaker

Shan Huang

13:10