

Session Program

21-25 Jul 2025

PASCOS 2025

Strings and Formal Quantum Field Theory

Durham

Monday 21 July

16:00

Strings and Formal Quantum Field Theory

Session | Location: E005

16:00-16:20

Truly Confining Supersymmetric Gauge Theories

Speaker

Shota Saito

16:20-16:40

Revisiting Instantons in Higgs Phase

Speaker

Takafumi Aoki

16:40-17:00

Higher-order-operator corrections to phase transitions in dimensionally reduced EFTs

Speaker

Luis Gil

17:00-17:20

SymTFTs for U(1) symmetries from descent

Speaker

Finn Gagliano

17:20-17:40

No gauge cancellation at high energy in the five-vector $U(1)$ gauge

Speaker

Jaehoon Jeong

17:40-18:00

Towards a non-Hermitian cosmology

Speaker

Peter Millington

18:00

Thursday 24 July

16:00

Strings and Formal Quantum Field Theory

Session | Location: E005

16:00-16:20

Modified Microcausality from Perturbation Theory

Speaker

Giordano Cintia

16:20-16:40

Realistic Fermion Masses and Mixing in Heterotic Calabi-Yau Models

Speaker

Luca Armando Nutricati

16:40-17:00

Similarities in the evaporation of saturated solitons and black holes

Speaker

Giacomo Contri

17:00-17:20

Vacuum Energy in Non-Supersymmetric Quasi-Realistic Heterotic-String Vacua with Fixed Moduli

Speaker

Eman Basaad

17:20-17:40

Superradiance of non-topological solitons

Speaker

Qi-Xin Xie

17:40-18:00

Non-Abelian Domain Walls

Speaker

Bowen Fu

18:00-18:20

Cartography of strong new physics

Speaker

Álvaro Pastor Gutiérrez

18:20

Friday 25 July

14:00

Strings and Formal Quantum Field Theory

Session | Location: E005

14:00-14:20

Qumode Tensor Networks for False Vacuum Decay in Quantum Field Theory

Speaker

Simon Williams

14:20-14:40

How to build a dimension

Speaker

Kieran Wood

14:40-15:00

Strong-coupling instabilities in degenerate $f(R)$ models

Speaker

Adrian Casado-Turrion

15:00-15:20

Towards UV-completing supersymmetric extensions of the Standard Model

Speaker

Gabriel Picanco

15:20-15:40

Bounds on dilaton and complex structure moduli values for perturbative control

Speaker

Min-Seok Seo

15:40-16:00

Quantum Simulation of Scattering via Hamiltonian Truncation

Speaker

James Ingoldby

16:00