

Session Program

22-26 Jun 2026



PASCOS 2026

Strings

Richard Roberts Auditorium
13 Brook Hill, Sheffield S3 7HF

Monday 22 June

11:10

Strings

Session | **Location:** Richard Roberts Auditorium, 13 Brook Hill, Sheffield S3 7HF | **Convener:**
Carsten van de Bruck

11:10-11:45

Challenging the Standard Paradigm of Early Universe Cosmology

Speaker

ROBERT Brandenberger

11:45-12:20

Planar abelian mirror duals of 3d Chern-Simons matter theories

Speaker

Sara Pasquetti

12:20

Tuesday 23 June

09:00

Strings

Session | **Location:** Richard Roberts Auditorium, 13 Brook Hill, Sheffield S3 7HF | **Convener:** Marco Fazzi

09:00–09:35 **Entropic Observables for Symmetry Breaking**

Speaker

Francesco Benini

09:35–10:10 **Learning Quantum Field Theory: A Generative AI Approach**

Speaker

Miranda Cheng

10:10–10:45 **Generalized Symmetries in QFT and Quantum Matter**

Speaker

Sakura Schafer-Nameki

10:45

14:15

Strings: Generalized symmetries & Mathematical structures in string theory and QFT

Session | **Location:** Hicks Building, Lecture Theatre B | **Conveners:** Joseph Enea Davighi, Piotr Sułkowski

14:15–14:35

Probing gluon saturation in a DIS process via nonconformal soft-wall holography

Speaker

Adrita Chakraborty

14:35–14:55 **4d N=4 string islands from asymmetric orbifolds**

Speaker

Elisa Iris Marieni

14:55–15:15 **Threading the Thimble: A Stable Route to Real-Time Path Integrals**

Speaker

Katarina Trailović

15:15–15:35 **Varieties of four-dimensional gauge theories**

Speaker

Khoi Le Nguyen Nguyen

15:35–15:55

Quark hierarchies and spontaneous CP violation from Siegel modular forms

Speaker

Matteo Parriciatu

15:55–16:15 **Coffee Break**

16:15–16:35 **Modular and CP invariant SU(5) with a single adjoint**

Speaker

Marco Carducci

16:35-16:55

Revisiting Instanton Effects in the Broken Phase

Speaker

Takafumi Aoki

16:55

Thursday 25 June

09:30

Strings: Black Holes

Session | **Location:** Hicks Building, Lecture Theatre B | **Conveners:** Marina David, Arash Ardeali

09:30–09:50 **Black hole resonances under perturbation: a dynamical system**

Speaker

Sam Dolan

09:50–10:10

Evaporating black holes: how the burden of their memory stabilizes them

Speaker

Michael Zantedeschi

10:10–10:30

Quantum Solitons and Non-Perturbative Backreaction in AdS_3

Speaker

Robie Hennigar

10:30–10:50

Numerical Relativity in effective field theories of gravity

Speaker

Llibert Aresté Saló

10:50–11:10

Coffee Break

11:10–11:30

Volume as Time: Boundary Dynamics Near Black Hole Horizons

Speaker

Farbod-Sayyed Rassouli

11:30–11:50

Detecting black hole microstates

Speaker

William Chan

11:50–12:10

Tidal Love Numbers of Black Holes Dressed by Dark Matter

Speaker

Simone D'Onofrio

12:10–12:30

Accelerating black holes in higher-derivative theories of gravity

Speaker

Marina David

12:30

16:15

Strings

Session | **Location:** Richard Roberts Auditorium, 13 Brook Hill, Sheffield S3 7HF | **Convener:** Alessandro Tomasiello

16:15–16:50

Entropy of near-extremal and near-BPS black holes in AdS_3 supergravity.

Speaker

Diksha Jain

17:25

16:50-17:25

TBA

Speaker

Luigi Tizzano

Friday 26 June

10:10

Strings: String phenomenology/cosmology

Session | **Location:** Hicks Building, Lecture Theatre B | **Conveners:** Ivonne Zavala, Susha Louise Parameswaran

10:10–10:30

Interpretable Machine Learning for Dynamical Dark Energy: From Phenomenology to String-Inspired Models

Speaker

Ivonne Zavala

10:30–10:50

Rapid Turn Multifield Cosmology with Gauss-Bonnet term

Speaker

Prof. Lilia Anguelova

10:50–11:10

Coffee Break

11:10–11:30

Modular quintessence and de-Sitter in heterotic orbifolds

Speaker

Hansel Gordillo Ruiz

11:30–11:50

Generalised anomalies, QCD, and holography

Speaker

Mohammad Akhond

11:50–12:10

SUSY and non-SUSY analysis of truly confining gauge theories

Speaker

Shota Saito

12:10–12:30

The Cosmological Constant Problem and Dark Dimensions from Non-Susy Strings

Speaker

Susha Louise Parameswaran

12:30

14:05

Strings

Session | **Location:** Richard Roberts Auditorium, 13 Brook Hill, Sheffield S3 7HF

14:05–14:40

TBA

Speaker

Salvatore Bottaro

14:40–15:15

Counting AdS Vacua

Speaker

Alessandro Tomasiello

15:15–15:50

Black hole scattering, Feynman graph expansions and Calabi-Yau geometries

15:50

Speaker
Albrecht Klemm