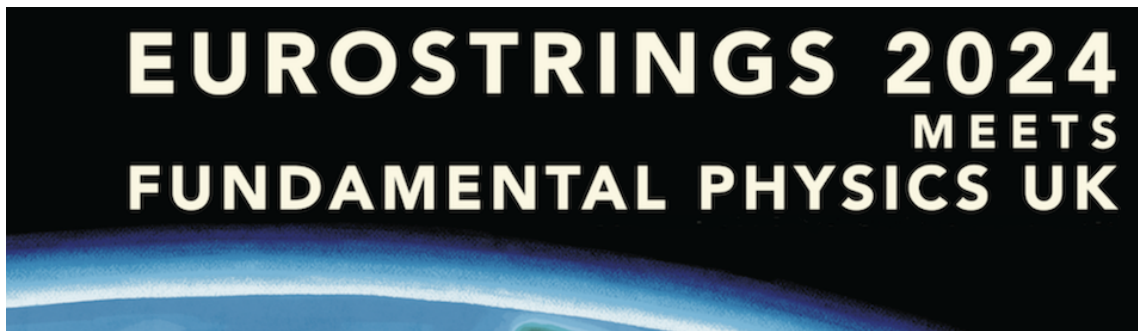


Session Program

2-6 Sept 2024



Eurostrings 2024

Parallel sessions

University of Southampton
Highfield Campus Southampton SO17 1BJ

Monday 2 September

14:00

Parallel sessions: Black holes

Session | **Location:** University of Southampton, B46/LTA | **Convener:** [Convener: Alejandra Castro]

14:00-14:30 **The light we can see: Extracting black holes from weak Jacobi forms**

Speaker
Alejandra Castro

14:30-14:50

Isospectrality in Effective Field Theory Extensions of General Relativity

Speaker
Marina David

14:50-15:10

Null infinity as an inverted extremal black hole horizon

Speaker
Panagiotis Charalambous

15:10-15:30

AdS₃ Black Holes Double Copy from Mini-Twistor space

Speaker
Mariana Carrillo Gonzalez

15:30

14:00

Parallel sessions: Bootstrap I

Session | **Location:** University of Southampton, B46/LTB | **Convener:** [Convener: Balt Van Rees]

14:00-14:30 **Constraining Glueball Couplings**

Speaker
Balt van Rees

14:30-14:50

CFT Data of Stringy Operators of $N = 4$ Super-Yang-Mills at Strong Coupling

Speaker
Nika Sokolova

14:50-15:10

Trace anomalies and graviton-dilaton scattering amplitudes

Speaker
Mr Biswajit Sahoo

15:10-15:30

Field theory expansions of string theory amplitudes

Speaker
Dr Arnab Priya Saha

15:30

14:00

Parallel sessions: Holography (applied) I

Session | **Location:** University of Southampton, B46/LTC | **Convener:** [Convener: Aristomenis Donos]

14:00-14:30 **Nearly critical superfluids and holography**

Speaker
Aristomenis Donos

14:30-14:50 **Fluid/Gravity Duality for Viscoelastic Crystals**

Speaker

Andre Oliveira Pinheiro

14:50-15:10 **On the GCL prescription for Schwinger-Keldysh holography**

Speaker

Vaios Ziogas

15:10-15:30 **Black hole pseudospectrum in AdS**

Speaker

Christiana Pantelidou

15:30

14:00

Parallel sessions: QFT I

Session | Location: University of Southampton, B44/LTA

14:00-14:30

Non-Invertible Surface Defects in 3d QFTs from Half Spacetime Gauging

Speaker

Lorenzo Ruggeri

14:30-14:50

The free energy of the large-N fermionic Chern-Simons theory in the 'temporal' gauge on R^2 and S^2

Speaker

Mr Souparna Nath

14:50-15:10

Higgsing SCFTs via Decay and Fission of Magnetic Quivers

Speaker

zhenghao zhong

15:10-15:30

Superconformal indices in $N=(0,2)$ Quantum Mechanics

Speaker

Canberk Sanli

15:30

14:00

Parallel sessions: Resurgence & non-perturbative methods I

Session | Location: University of Southampton, B44/LTB | Convener: [Convener: Daniele Dorigoni]

14:00-14:30

Resurgence in CFT2 - Minimal models and beyond?

Speaker

Tomás Reis

14:30-14:50

Integrated correlators in a $SU(N)$ $\mathcal{N}=2$ SYM theory with fundamental flavours

Speaker

Paolo Vallarino

14:50-15:10

Brane scattering from integrated correlators in $N=4$ SYM

Speaker

Francesco Galvagno

15:10-15:30

On the structure of wave functions in complex Chern-Simons theory [cancelled]

Speaker

Ms Claudia Rella

15:30

Tuesday 3 September

14:00

Parallel sessions: Bootstrap II

Session | **Location:** University of Southampton, B46/LTB | **Convener:** [Convener: Shai Chester]

14:00-14:30 **Bootstrapping string and M-theory**

Speaker
Shai Chester

14:30-14:50 **Matrix Quantum Mechanics bootstrap at finite temperature**

Speaker
Barak Gabai

14:50-15:10

Bootstrapping frustrated magnets: the fate of the chiral $\mathfrak{O}(N)\times\mathfrak{O}(2)$ universality class

Speaker
Marten Reehorst

15:10-15:30 **Bootstrapping the AdS Veneziano amplitude**

Speaker
Tobias Hansen

15:30

14:00

Parallel sessions: Holography (flat) I

Session | **Location:** University of Southampton, B44/LTA | **Convener:** [Convener: Tim Adamo]

14:00-14:30 **Celestial chiral algebras in higher dimensions**

Speaker
Tim Adamo

14:30-14:50 **Lessons from light-cone formulation for physics at null infinity**

Speaker
Sucheta Majumdar

14:50-15:10

$w(1+\infty)$ Algebra with a Cosmological Constant and the Celestial Sphere

Speaker
Dr Bin Zhu

15:10-15:30 **Operator product expansion in Carrollian CFT**

Speaker
Mr Kevin Nguyen

15:30

14:00

Parallel sessions: Holography (applied) II

Session | **Location:** University of Southampton, B46/LTC | **Convener:** [Convener: Michal Heller]

14:00-14:30

Holographic timelike entanglement entropy: prescription and application

Speaker
Michal P. Heller

14:30-14:50 The dynamics of first-order phase transitions in holographic theories

Speaker
Oscar Henriksson

14:50-15:10 Carroll Gravity, BKL Dynamics and Holography

Speaker
Gerben Oling

15:10-15:30 Black Hole Singularity from OPE

Speaker
Nejc Čeplak

15:30

14:00

Parallel sessions: Supergravity I

Session | **Location:** University of Southampton, B46/LTA | **Convener:** [Convener: Dario Martelli]

14:00-14:30 Localization in Supergravity

Speaker
Alice Luscher

14:30-14:50 Wilson Loops and Spherical Branes

Speaker
Alexia Nix

14:50-15:10 Exploring thermal black holes in a precise AdS₅/CFT₄ setup

Speaker
Vasil Radoslavov Dimitrov

15:10-15:30 Exotic Spheres, Kaluza-Klein Formalism and Supergravity

Speaker
Tancredi Schettini Gherardini

15:30

14:00

Parallel sessions: Symmetries

Session | **Location:** University of Southampton, B44/LTB

14:00-14:30 On classical integrability of heterotic strings

Speaker
David Osten

14:30-14:50 Categorical-Symmetry Resolved Entanglement in CFT

Speaker
Arpit Das

14:50-15:10

W-symmetries, anomalies and heterotic backgrounds with SU holonomy

Speaker
Mr Loukas Grimanellis

15:10-15:30 The Harry Dym hierarchy and AdS₃ General Relativity

15:30

Speaker
Francisco Reyes

Wednesday 4 September

11:00

Parallel sessions: Amplitudes

Session | Location: University of Southampton, B46/LTA | Convener: [Convener: Oliver Schlotterer]

11:00-11:30

Integration on higher-genus Riemann surfaces from and for string amplitudes

Speaker
Oliver Schlotterer

11:30-11:50

Non-planar integrated correlator in $\mathcal{N}=4$ SYM

Speaker
Shun-qing Zhang

11:50-12:10

A double copy from twisted (co)homology at genus one

Speaker
Andrzej Pokraka

12:10-12:30

Non-analytic terms of string amplitudes from partial waves

Speaker
Mr Hynek Paul

12:30

11:00

Parallel sessions: Black holes and quantum information

Session | Location: University of Southampton, B44/LTA | Convener: [Convener: Julian Sonner]

11:00-11:30

Chaos, Complexity and Black Holes

Speaker
Julian Sonner

11:30-11:50

Entanglement Entropy via replica trick and theories with islands in higher dimensional curved backgrounds.

Speaker
Arvind Shekar

11:50-12:10

On the Backreaction of Dirac Matter in JT Gravity and SYK Model

Speaker
Chen-Te Ma

12:10-12:30

Bulk quantum corrections for non-spatial holographic entanglement

Speaker
Marius Gerbershagen

12:30

11:00

Parallel sessions: Cosmological bootstrap

Session | Location: University of Southampton, B46/LTC | Convener: [Convener: Massimo Taronna]

11:00-11:30

Holographic Correlators for all Lambdas

12:30
11:00

Speaker Massimo Taronna
11:30-11:50 Hidden Simplicity of Cosmological Correlators
Speaker ARTHUR,ELIAS LIPSTEIN
11:50-12:10 Cosmological Correlators From Flat Space Feynman Integrals
Speaker Sadra Jazayeri
12:10-12:30 [cancelled] Loops in (anti)de Sitter
Speaker Sergio Luigi Cacciatori

Parallel sessions: Holography (flat) II	
Session Location: University of Southampton, B46/LTB	
11:00-11:30	Asymptotic symmetries and logarithmic soft theorems
Speaker	Sangmin Choi
11:30-11:50	Logarithmic soft graviton theorems from superrotation Ward identities
Speaker	Shreyansh Agrawal
11:50-12:10	Eikonal amplitudes on the celestial sphere
Speaker	Piotr Tourkine
12:10-12:30	Amplitudes and celestial OPEs around curved backgrounds
Speaker	Giuseppe Bogna

12:30
11:00

Parallel sessions: Swampland	
Session Location: University of Southampton, B44/LTB Convener: [Convener: Miguel Montero]	
11:00-11:30	Emergent geometry in string theory
Speaker	Ivano Basile
11:30-11:50	Holography for KKLt: Anatomy of a Flow
Speaker	Yixuan Li
11:50-12:10	S-folds: new N=4 D=4 consistent truncation of Type IIB and N=2 black-hole solutions
Speaker	Colin Yannick P Sterckx

12:10-12:30

Dynamics and the Distance Conjecture

Speaker

Filippo Revello

12:30

Thursday 5 September

14:00

Parallel sessions: Cosmology (formal, string cosmology)

Session | Location: University of Southampton, B44/LTA | Convener: [Convener: Viktor Gorbenko]

14:00-14:30 Bra-Ket Wormholes in Cosmology

Speaker

Viktor Gorbenko

14:30-14:50 Constraints on inflation from the gravitational path integral?

Speaker

Oliver Janssen

14:50-15:10 Charged quantum-corrected black holes in dS3

Speaker

Emanuele Panella

15:10-15:30 de Sitter Connectivity from Holographic Entanglement

Speaker

Victor Franken

15:30

14:00

Parallel sessions: Generalized symmetries

Session | Location: University of Southampton, B44/LTB | Convener: [Convener: Lakshya Bhardwaj]

14:00-14:30 Categorical Landau Paradigm

Speaker

Lakshya Bhardwaj

14:30-14:50

Polarization Pairs and Non-invertible Duality Defects across Dimensions

Speaker

Craig Lawrie

14:50-15:10 Gapped phases and phase transitions with categorical symmetries

Speaker

Lea Bottini

15:10-15:30 Non-Invertible Symmetries, Anomalies and Scattering Amplitudes

Speaker

Christian Copetti

15:30

14:00

Parallel sessions: Holography

Session | Location: University of Southampton, B46/LTB | Convener: [Convener: Shira Chapman]

14:00-14:30 Holographic AdS5 correlators for LLM geometries

Speaker

Alexander Tyukov

14:30-14:50 Semiclassical black hole microstates**Speaker**

Mr Juan Hernandez

14:50-15:10 Nambu-Goto equation from three-dimensional gravity**Speaker**

Avik Banerjee

15:10-15:30 Exploring Cosmic Censorship in a Collider**Speaker**

Javier Subils

15:30

14:00

Parallel sessions: Non-relativistic field theories**Session** | **Location:** University of Southampton, B46/LTC | **Convener:** [Convener: Jelle Hartong]**14:00-14:30 Non-Lorentzian Geometry and String Theory****Speaker**

Jelle Hartong

14:30-14:50 Spin Matrix Theories as Conformal Field Theories**Speaker**

Stefano Baiguera

14:50-15:10 Butterflies revisited for asymptotically Lifshitz black hole**Speaker**

Dr Adrita Chakraborty

15:10-15:30 A new non-relativistic holography**Speaker**

Andrea Fontanella

15:30

14:00

Parallel sessions: Supergravity II**Session** | **Location:** University of Southampton, B46/LTA**14:00-14:30 Supersymmetric localization of $N = (2,2)$ theories on a spindle****Speaker**

Aaron Poole

14:30-14:50 NUTs, Bolts, and Spindles**Speaker**

Dr Alessio Fontanarossa

14:50-15:10**Holography with conical singularities: black hole entropy from SCFT on the spindle.****Speaker**

Edoardo Colombo

15:10-15:30 $SO(9)$ supergravity in the context of matrix model holography**Speaker**

Mr Alfred Bovon

15:30

Friday 6 September

14:00

Parallel sessions: AI & machine learning

Session | Location: University of Southampton, B44/LTA

14:00-14:30 **Non-perturbative Quantum Physics and Deep Learning**

Speaker

Costis Papageorgakis

14:30-14:50 **Learning Integrable Models. From numerics to exact result**

Speaker

Dr Evgeny Sobko

14:50-15:10

Computation of Fermion Masses and Mixing in Geometric String Compactifications

Speaker

Andrei Constantin

15:10-15:30

[cancelled] Reinforcement Learning-based numerical approaches for the Conformal Bootstrap

Speaker

Costis Papageorgakis

15:30

14:00

Parallel sessions: CFT

Session | Location: University of Southampton, B46/LTB

14:00-14:30 **Orbifold Averages**

Speaker

Stefan Forste

14:30-14:50

Modulated instabilities and the AdS2 point in dense holographic matter

Speaker

JESUS CRUZ ROJAS

14:50-15:10

Renormalization of Conformal Correlators and its Implications

Speaker

Ms Pratyusha Chowdhury

15:10-15:30

Constraining boundary conditions in non-rational CFTs

Speaker

Hassaan Saleem

15:30

14:00

Parallel sessions: Holography (flat) III

Session | Location: University of Southampton, B46/LTC

14:00-14:30 **Spinning Massive Amplitudes from the Flat Limit of CFT Correlators**

Speaker

Dr Raffaele Marotta

14:30-14:50

Soft factorization of scattering processes on AdS spacetimes**Speaker**

Karan Fernandes

14:50-15:10

On-shell Bootstrap for n-gluons and gravitons scattering in (A)dS, Unitarity and Soft limits**Speaker**

Yuyu Mo

15:10-15:30

Entanglement Rényi entropies in celestial holography**Speaker**

Ronnie Rodgers

15:30

14:00

Parallel sessions: QFT II**Session** | **Location:** University of Southampton, B46/LTA | **Convener:** [Convener: Christopher Beem]

14:00-14:30

Hidden Unitarity in the SCFT/VOA Correspondence**Speaker**

Prof. Christopher Beem

14:30-14:50

Classifying large N limits of multiscale theories by algebra**Speaker**

Nadia Flodgren

14:50-15:10

MTC[M3,G] : 3d Topological Order Labeled by Seifert Manifolds**Speaker**

Jingxiang Wu

15:10-15:30

Homotopy algebras in hep-th**Speaker**

Hyungrok Kim

15:30

14:00

Parallel sessions: Resurgence & non-perturbative methods II**Session** | **Location:** University of Southampton, B44/LTB | **Convener:** [Convener: Ines Aniceto]

14:00-14:30

strong-weak resurgent symmetry and the beauty of L-functions**Speaker**

Veronica Fantini

14:30-14:50

An algebraic approach to parametric resurgence**Speaker**

Mr Samuel Crew

14:50-15:10

Localization and resummation in 2d Yang-Mills**Speaker**

Dr Rodolfo Panerai

15:10-15:30

Strong coupling expansion of determinant observables in supersymmetric gauge theories

Speaker

Berzel Boldis

15:30