

Session Program

1-5 Sept 2026

**13th International Conference on the Exact
Renormalization Group 2026 (ERG2026)**

Poster presentations

University of Sussex

Tuesday 1 September

15:30

Poster presentations: 1-min slide show

Session | **Location:** Jubilee Building, Large Lecture Theatre

15:30–15:31 **TBC**

Speaker

Mr David Dullaway

15:31–15:32 **Constructing UV-critical hypersurfaces using machine learning**

Speaker

Stijn Hennissen

15:32–15:33 **Resurgence in Ward-Schwinger-Dyson Equations for QED**

Speaker

Edwyn Tecedor

15:33–15:34

Many-body correlations in Floquet steady-states: Frequency-resolved renormalization group of the driven Anderson impurity

Speakers

Dominik Chudy, Jan Herre

15:34–15:35 **Weyl Gauged Gravity**

Speakers

Fabrizio Chicconi, Dr Luca Parente

15:35–15:36 **One symmetry, multiple avatars: $U(1)$ in Asymptotically Safe Gravity**

Speaker

Juan Fernandez Molinero

15:36–15:37 **Multicritical fixed points from functional renormalisation**

Speaker

Iason Vakondios

15:37–15:38 **Can the Radiation Era be Extended all the way to the Bang?**

Speaker

Vatsalya Vaibhav

15:38–15:39 **Resurgence and FRG Perspectives in Strong-Field QED**

Speaker

Mr Gabriel Weigert

15:39–15:40

On the Structure of the Fermion Sector in the Asymptotically Safe Standard Model

Speaker

Moritz Gessner

15:40–15:41

Conformal Invariance Constraints in the Functional Renormalization Group

Speaker

Jorge Ibañez

15:41–15:42

Chiral Quantum Phase Transition in Moiré Dirac Materials at finite density

Speaker

Ana García-Page

15:43–15:44

Probing Conformal Windows with Perturbation Theory

Speaker

Nahzaan Riyaz

15:44–15:45

Spatial Coarse-Graining Impedes the Ability to Classify Message-Passing Algorithms

Speaker

Carter Goldman

15:45–15:46

Gauge-Invariant and Background-Independent Quantum Gravity

Speaker

Paul Philip Sprenger

15:46–15:47

Universal Thermodynamics of Two-Dimensional Bose Gas: a Non-Perturbative Renormalization Group Approach

Speaker

Yaniss Rabahi

15:47–15:48

On black-hole scalarization: strong breaking of black-hole uniqueness and constraints from asymptotically safe gravity

Speaker

Lidia Marino

15:48–15:49

Scalar Matter in Lorentzian Quantum Gravity

Speaker

Rowan Packer

16:00

17:00

Poster presentations

Session | **Location:** Jubilee Building, Large Lecture Theatre

17:00–17:01

Two-Component Bose Mixtures: Mean-Field Theory and Functional Renormalisation Group

Speaker

Oskar Stachowiak

17:01–17:02

Critical behavior of isotropic magnets with screened dipolar interactions

Speaker

Max Fornoville

17:02-17:03

Negative diffusion in the Functional Renormalization Group flow for the Quark-Diquark Model**Speaker**

Johannes Pöplau

17:03-17:04

Self-consistent quark-meson spectral functions**Speaker**

Konrad Kockler

17:04-17:05

Analytically continued FRG for dissipative open quantum systems**Speaker**

Patrick Niekamp

17:05-17:06

Cosmology from asymptotically safe Proca theories**Speaker**

Carlos Pastor Marcos

17:06-17:07

Symmetry breaking in the Nambu-Jona-Lasinio Model using the FRG**Speaker**

Freddie Matthew King

17:07-17:08

Probability distribution of order parameter in $O(N)$ models**Speaker**

Lovro Šaravanja

17:08-17:09

Spontaneous symmetry breaking in a relativistic Yukawa theory with Luttinger fermions**Speaker**

Tim Lukas Eckert

17:09-17:10

Composite-field tree expansions of 1PI vertices**Speaker**

Oleksandr Sulyma

17:10-17:11

Scaling regimes of shallow water turbulence**Speaker**

Gregorio Tibone

17:11-17:12

Generative diffusion model with inverse renormalization group flows**Speaker**

Kanta Masuki

17:12-17:13

Mass scale hierarchies in a Yukawa model with Luttinger and Dirac fermions from self-organized criticality**Speaker**

Yunxin Ye

17:13-17:14

Non-perturbative news from the conformal window**Speaker**

Alvaro Pastor Gutierrez

17:14-17:15

Non-Renormalization of π_1 -Characters under Finite ERG Transformations on Multiply Connected Configuration Spaces**Speaker**

Taichi Tanaka

17:15-17:16

A tale of scales in Asymptotically Safe Quantum Gravity**Speaker**

Francesco Ferrarin

17:16-17:17

The moat regime under magnetic fields**Speaker**

Justin Mauldin

17:17-17:18

Computing the Bubble Nucleation Rate with Functional Renormalisation Group Methods**Speaker**

Rory Phipps

17:30