ERG 2026

Exact Renormalization Group

1-5 Sep 2026

University of Sussex, UK

ERG 2026

Exact Renormalization Group

1-5 Sep 2026

University of Sussex, UK

IAC

Mike Birse
Jean-Paul Blaizot
Leonie Canet
Bertrand Delamotte
Astrid Eichhorn
Teiji Kunihiro
Daniel Litim
Walter Metzner
Nobuyoshi Ohta
Roberto Percacci
Manfred Salmhofer
Nikolaos Tetradis
Christof Wetterich

LOC

Daniel Litim
Peter Millington
Manuel Reichert
Michael Scherer

Exact Renormalization Group

ERG 2026

U Sussex 1-5 September 2026

Support Team:

Molly Sheppard (IOP)

Gabriel Assant

Angelo Portas Chiesa

David Dullaway

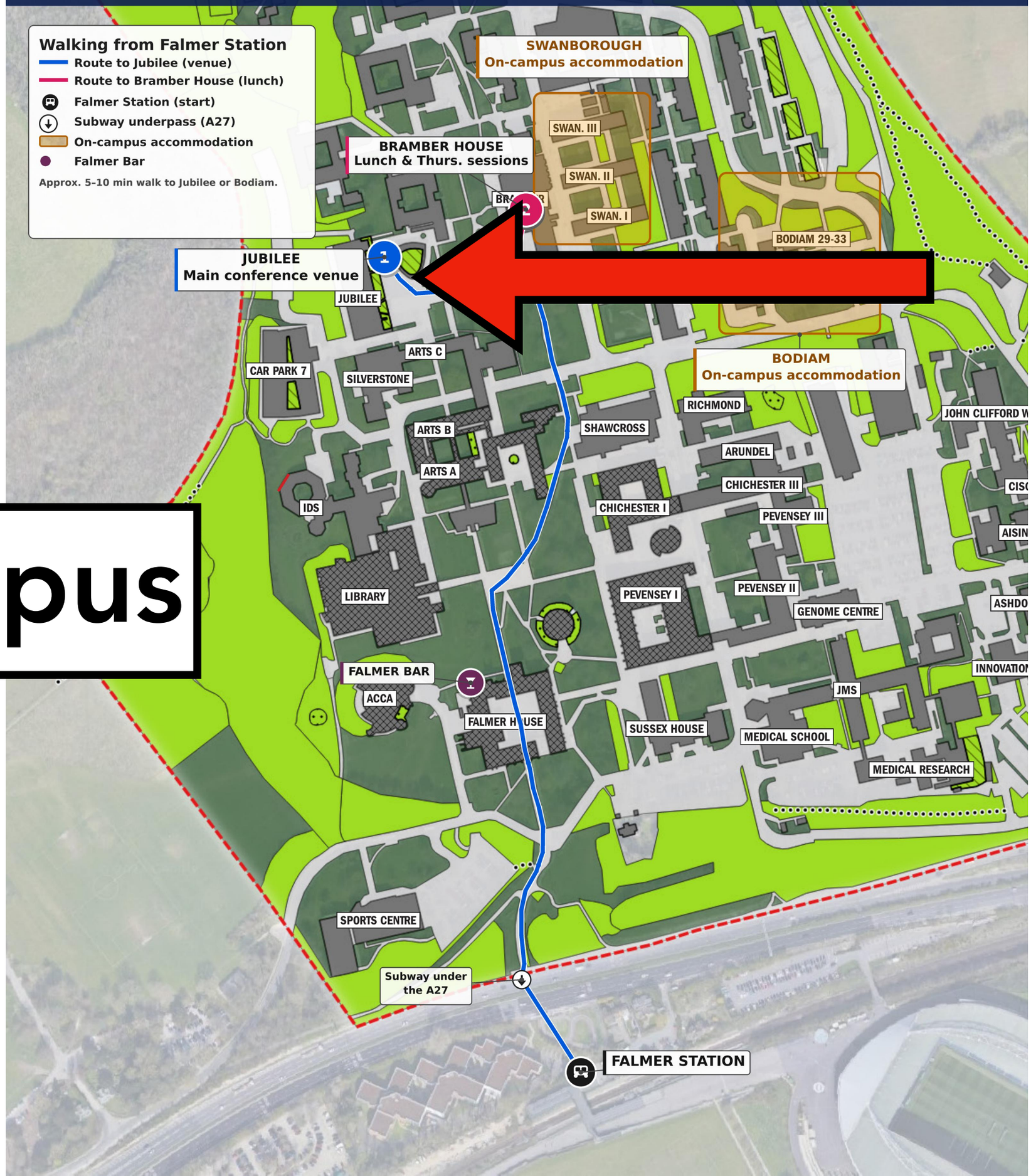
Freddie King

Rowan Packer

Rory Phipps

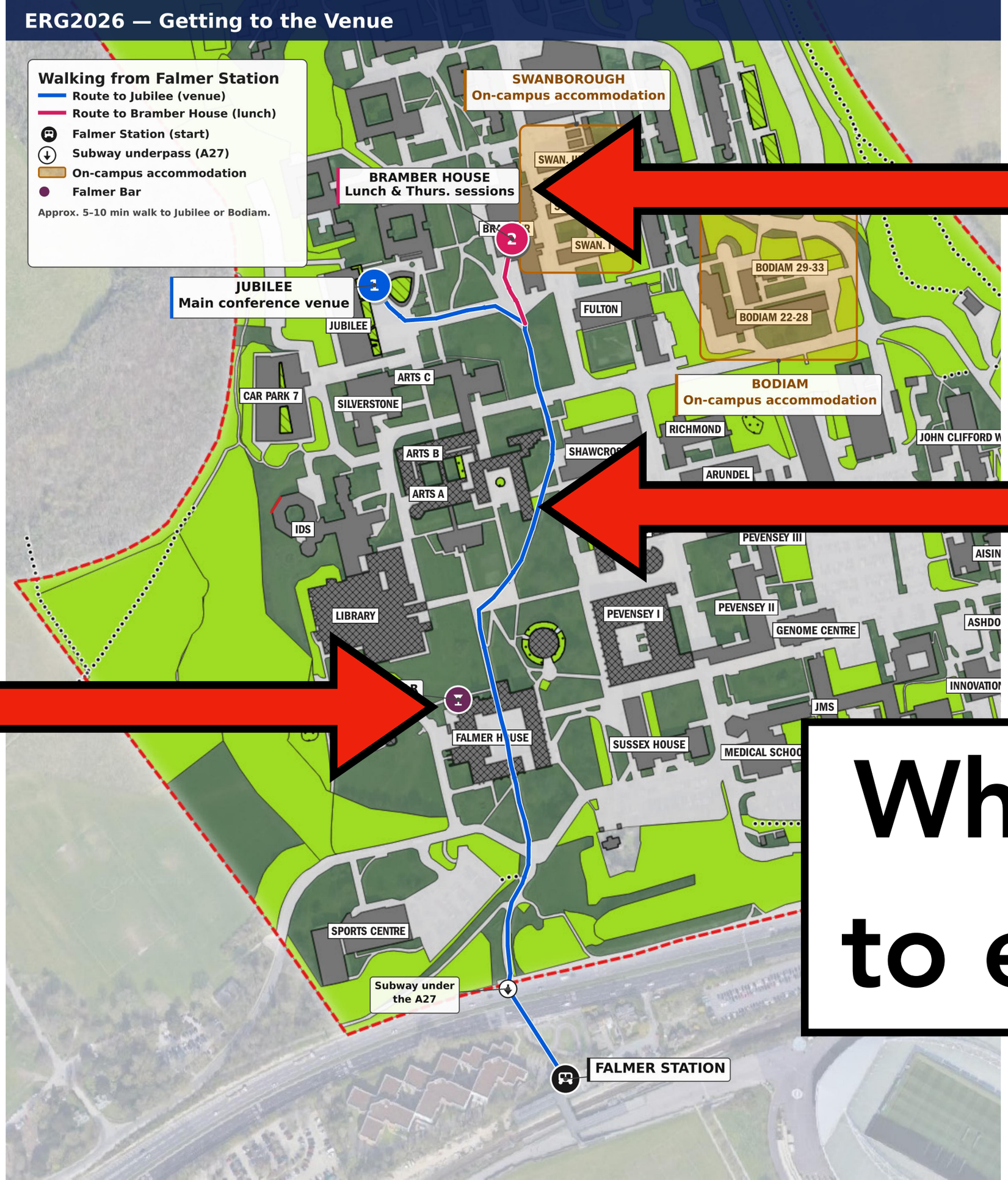
Nahzaan Riyaz

ERG2026 — Getting to the Venue



Campus

You are Here



Bramber House

Arts Cafe

Falmer Bar

Where to eat?

Exact Renormalization Group

ERG 2026

U Sussex 1-5 September 2026

Internet: Eduroam

or

see leaflet from Conference Centre

Exact Renormalization Group

ERG 2026

U Sussex 1-5 September 2026

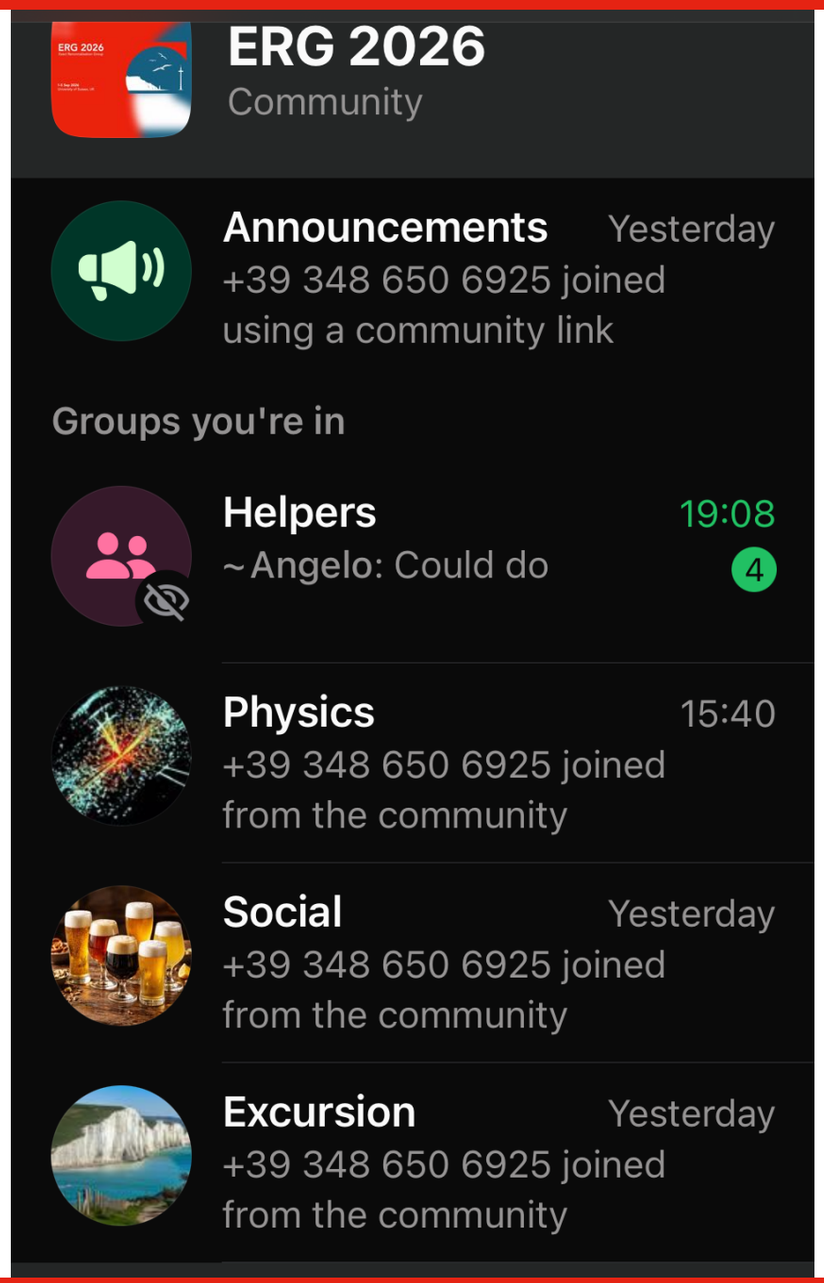
informal platform:

Exact Renormalization Group

ERG 2026

U Sussex 1-5 September 2026

informal platform:



Exact Renormalization Group

ERG 2026

U Sussex 1-5 September 2026

Code of conduct:

Be respectful

Safe space for growth

ERG2026 — Schedule at a Glance

University of Sussex, Falmer, Brighton • 1–5 September 2026 *(times, speakers & titles only — see the full booklet for abstracts)*

Tuesday 1 Sep

9:00 - 9:30 • Welcome

9:30 - 10:00 Igor Herbut — *Unified theory of interacting Dirac fermions in two dimensions, and the dark side of the Gross-Neveu model*

10:00 - 10:30 Lennart Klebl — *Towards First-Principles Functional Renormalization Group for Quantum Materials*

10:30 - 11:00 • Coffee

11:00 - 11:30 Nicolo Defenu — *Superdiffusion and chaos from Bernoulli randomness on simple graphs*

11:30 - 12:00 Laura Classen — *FRG phase diagram and superconductivity from ab-initio models of twisted WSe_2*

12:00 - 13:40 • Lunch

Large Lecture Theatre

13:40 - 14:00 Paweł Jakubczyk — *Landau damping and quantum criticality in Fermi systems from the Wilsonian RG perspective*

14:00 - 14:20 Mireia Tolosa-Simeón — *Quantum critical Dirac semimetals and finite-temperature effects*

14:20 - 14:40 Vincent Grison — *From Bose glass to Many-Body Localization in a one-dimensional disordered Bose gas*

14:40 - 15:00 Ivan Balog — *Dynamics in quantum random-field systems: localization or activation?*

Jub-155

13:40 - 14:00 Charlie Cresswell-Hogg — *Strongly coupled four-fermion fixed points in four dimensions*

14:00 - 14:20 Francesco Del Porro — *Chiral Lagrangian as a proxy for ASQG*

14:20 - 14:40 Anca Preda — *Renormalizability and UV behavior of 5D gauge theories*

14:40 - 15:00 Andreas Trautner — *RG fixed points from outer automorphisms and goofy transformations*

Jub-144

13:40 - 14:00 Yuepeng Guan — *The θ-vacuum from functional renormalisation*

14:00 - 14:20 Tom Steudtner — *Perturbatively Exact Fixed Points in Three Dimensions*

14:20 - 14:40 Max Uetrecht — *Modified Forward Scattering and Unitarity in Matter Chern–Simons Theory*

14:40 - 15:00 Félix Rose — *New approach to OPE coefficients from the FRG*

15:00 - 15:30 • Coffee

15:30 - 16:00 • 1-min Poster Talks (Session 1)

16:00 - 16:30 Benjamin Knorr — *Analytic results in Asymptotic Safety*

16:30 - 17:00 Yannick Kluth — *From Functional to Ricci Flows: Asymptotic Safety in Perturbation Theory*

17:00 - 17:30 • 1-min Poster Talks (Session 2)

17:30 - 18:00 • Fish & Chips

18:00 - 21:00 • Poster Session

Wednesday 2 Sep

9:00 - 9:30 Fabian Rennecke — *Dense QCD and the moat regime*

9:30 - 10:00 Gergely Fejős — *Existence of IR fixed points in the QCD chiral transition*

10:00 - 10:30 Roman Zwicky — *Gravitational Form Factors, Conformal Symmetry and the Conformal Window*

10:30 - 11:00 • Coffee

11:00 - 11:30 Ginestra Bianconi — *Gravity from Entropy*

11:30 - 12:00 Marc Schiffer — *Asymptotically safe quantum gravity: functional and lattice perspectives*

12:00 - 14:00 • Buffet Lunch

Large Lecture Theatre

14:00 - 14:20 Johanna Borissova — *$d \geq 4$ gravitational vacua and black hole thermodynamics from $2D$ dilaton theories*

14:20 - 14:40 Nikolaos Tetradis — *Entanglement and renormalization-group flow*

14:40 - 15:00 Lucien Heurtier — *How Sensitive is Cosmic Inflation to Quantum Corrections? An ERG Approach.*

15:00 - 15:20 Sarben Sarkar — *The axion coupling accelerates the Universe through $\mathcal{PT}$-symmetric phases*

15:20 - 15:40 Fabian Wagner — *Prospects for scalar-tensor cosmology in asymptotically safe quantum gravity*

Jub-155

14:00 - 14:20 Alvaro Pastor Gutierrez — *Thermal precondensation and its appeareance in gauge-fermion theories*

14:20 - 14:40 Katsumi Itoh — *Functional Renormalization Group Flows and Gauge Consistency*

14:40 - 15:00 Hao-Lin Li — *The Fate of Chiral Gauge Theory*

15:00 - 15:20 Ugo Mire — *Diquark Properties from First Principles*

15:20 - 15:40 Eric Oevermann — *Functional Renormalization of QCD in 1+1 dimensions*

Jub-144

14:00 - 14:20 Takato Mori — *Informational renormalization group*

14:20 - 14:40 Gian Paolo Vacca — *Exploring multi parameter optimization in FRG*

14:40 - 15:00 Adam Rançon — *Non-Gaussian statistics of the order parameter across a continuous phase transition*

15:00 - 15:20 Nicolas Paris — *Universal Crossover in the Three-Channel Charge Kondo Model at High Transparency*

15:20 - 15:40 Ashutosh Dash — *The Adjoint Field as an Influence Map: Sensitivity Analysis of FRG Flows*

15:40 - 16:10 • Coffee

16:10 - 16:40 Massimiliano Gubinelli — *Stochastic observables and constructive RG*

16:40 - 17:10 Lingxiao Wang — *Diffusion Models as Stochastic Quantisation*

17:10 - 17:40 Kevin Falls — *Renormalisation Group approach to General Relativity*

Thursday 3 Sep

Terrace Room

9:00 - 9:20 Astrid Eichhorn — *Asymptotically safe Standard Model*

9:20 - 9:40 Brian Dolan — *Fixed points of the renormalisation group flow the CKM and PMNS matrices : CP violation in the Standard Model and beyond*

9:40 - 10:00 Zois Gyftopoulos — *Near-criticality of the neutrino sector of the Standard Model*

10:00 - 10:20 Daniele Rizzo — *Quantum gravity contributions to the gauge and Yukawa couplings in proper time flow*

11:00 - 11:20 Gabriel Assant — *Spectral Functions of Lorentzian Quantum Gravity*

11:20 - 11:40 Angelo Portas Chiesa — *Unitarity at all scales: Towards 2-to-2 scattering of scalars in Asymptotically Safe Quantum Gravity.*

11:40 - 12:00 Diego Buccio — *Understanding IR divergences in higher derivative theories*

12:00 - 12:20 Facundo Gutierrez — *Renormalization Group Approach to the Gravitational Two-Body Problem*

Gallery Room 1

9:00 - 9:20 Alessandro Codello — *Rethinking Dimensional Regularization in Critical Phenomena*

9:20 - 9:40 Piero Beretta — *Functional Dimensional Regularization for O(N) Models*

9:40 - 10:00 Gonzalo De Polsi — *Conformal Symmetry as an Organizing Principle for the Derivative Expansion*

10:00 - 10:20 Shunsuke Yabunaka — *Mass generation at a fixed point: A Functional Renormalization Group Study of the tricritical O(N) model in d=3 and N=∞*

11:00 - 11:20 Fanny Eustachon — *A complex LPA for the critical and multicritical Lee-Yang fixed points*

11:20 - 11:40 Bilal Hawashin — *Exploring Temperature-Resistant Order in Quantum Field Theories*

11:40 - 12:00 Nicolás Wschebor — *Derivative Expansion, Frustrated Antiferromagnets and $O(N) \times O(2)$ models*

12:00 - 12:20 Saswato Sen — *Critical Phenomena on the Bethe Lattice*

Gallery Room 2

9:00 - 9:20 Wei-jie Fu — *Density functional theory of renormalization group in nuclear matter*

9:20 - 9:40 Franz Richard Sattler — *Precondensation and inhomogeneous instabilities in high-density QCD*

9:40 - 10:00 Chuang Huang — *Pion Distribution Amplitudes from Functional QCD*

10:00 - 10:20 Bernd-Jochen Schaefer — *FRG Constraints on Diquark Pairing: Implications for Color-Superconducting Quark Matter*

11:00 - 11:20 Sankarshan Sahu — *Triviality doesn't mean Gaussianity: A Renormalization Group perspective*

11:20 - 11:40 Semanti Dutta — *SO (1, d+1) symmetry of the exact RG equation*

11:40 - 12:00 Alfiia Mukhaeva — *Summation of logarithmic quantum corrections based on the locality of QFT*

12:00 - 12:20 Denis Tolkachev — *Linearity in the renormalization group equations*

10:20 - 11:00 • Coffee

12:20 - 13:30 • Lunch

13:30 - 18:00 • Excursion

Friday 4 Sep

9:00 - 9:30 Léonie Canet — *Zonostrophic instability in beta-plane turbulence*

9:30 - 10:00 Vladimir Rosenhaus — *Weak to strong wave turbulence: RG, large N, and epsilon expansion*

10:00 - 10:30 Chiu Fan Lee — *Universality Far from Equilibrium: New Fixed Points and New Challenges for RG*

10:30 - 11:00 • Coffee

11:00 - 11:30 Yuto Ashida — *Exact RG and generative diffusion model*

11:30 - 12:00 Jan M. Pawlowski — *The Hunting of Physics with Machine Learning through the (f)RG Looking Glass, and what we found there: An Agony, in two to eight Fits*

12:00 - 12:30 Chris Hooley — *Non-Fermi-liquid metals and phase reconstruction: an FRG perspective*

12:30 - 14:00 • Lunch

Large Lecture Theatre

14:00 - 14:20 Liubov Gosteva — *Scaling regimes of the 1D Kuramoto-Sivashinsky equation*

14:20 - 14:40 Tilman Enss — *Long range to short range crossover in one dimension*

14:40 - 15:00 Laura Batini — *Dynamical criticality beyond the overdamped limit*

15:00 - 15:20 Olivier Coquand — *Wave interaction in astrophysical plasmas*

15:20 - 15:40 Riccardo Finotello — *A Functional Renormalization Group Approach to Anomaly Detection via Dimensional Phase Transitions*

Jub-155

14:00 - 14:20 Takeru Yokota — *Physics-informed neural networks for solving FRG*

14:20 - 14:40 Yang-yang Tan — *Solving Functional Renormalization Group Equations with Neural Networks*

14:40 - 15:00 Andras Laszlo — *Existence theorem on the UV limit of Wilsonian RG flows*

15:00 - 15:20 Stefan Floerchinger — *Flow equations of second order*

15:20 - 15:40 Antal Jakovác — *Singularities in the RG flow*

Jub-144

14:00 - 14:20 Kilian Fraboulet — *Fermionic fRG with interaction flows : applications to electron-phonon systems*

14:20 - 14:40 Hannes Braun — *Renormalisation group approaches for SU(N)xSU(M) symmetric Hubbard models*

14:40 - 15:00 Richard Schmidt — *Functional renormalization group approach to boson-induced superconductivity in Bose-Fermi mixtures*

15:00 - 15:20 Andreas Rückriegel — *Functional renormalization group for extremely correlated electrons*

15:20 - 15:40 Thomas Sheerin — *Control of ordered phases by manipulation of Van Hove singularities: insights from truncated-unity FRG*

15:40 - 16:10 • Coffee

16:10 - 16:40 Christopher Herzog — *Defect conformal field theories that are free in the bulk: A status report*

16:40 - 17:10 Enrico Pajer — *Unitarity and renormalization of cosmological correlators*

17:10 - 19:00 • Free time

19:00 - open end • Conference Dinner

Saturday 5 Sep

9:30 - 10:00 Christof Wetterich — *Fermi scale from quantum gravity scaling solution*

10:00 - 10:30 Neil Turok — *The conformally flat limit of quadratic gravity (CFQG) and beyond*

10:30 - 11:00 • Break

11:00 - 11:30 Tim Morris — *Asymptotic behaviour of the derivative expansion in the ERG*

11:30 - 12:00 Friederike Ihssen — *Applications of the physics-informed renormalisation group*

12:00 - 12:30 Holger Gies — *Functional Renormalization and relativistic Luttinger fermions*

12:30 - 14:00 • Lunch / Departure

Social Programme

Tue evening Poster Session
Jubilee Building atrium, 18:00–21:00.

Thu afternoon Conference Excursion
Self-guided walk along the Seven Sisters. Coaches depart campus at approx. 13:30 and return at approx. 17:30, arriving back on campus around 18:00. Appropriate shoes/clothing recommended; some water will be provided, but bringing your own bottle is a good idea too.

Fri evening Conference Dinner
Malmaison, Brighton Marina — welcome drink at 19:00, dinner at 19:30. Malmaison Brighton, The Waterfront, Brighton Marina, Brighton and Hove, BN2 5WA.

Join the ERG2026 WhatsApp group for conference updates and informal chat.

Excursion - Thu

Conference Dinner - Fri

Malmaison - Brighton Marina

ERG2026 — Schedule at a Glance

University of Sussex, Falmer, Brighton • 1–5 September 2026 *(times, speakers & titles only — see the full booklet for abstracts)*

Tuesday 1 Sep

9:00 - 9:30 • Welcome

9:30 - 10:00 Igor Herbut — *Unified theory of interacting Dirac fermions in two dimensions, and the dark side of the Gross-Neveu model*

10:00 - 10:30 Lennart Klebl — *Towards First-Principles Functional Renormalization Group for Quantum Materials*

10:30 - 11:00 • Coffee

11:00 - 11:30 Nicolo Defenu — *Superdiffusion and chaos from Bernoulli randomness on simple graphs*

11:30 - 12:00 Laura Classen — *FRG phase diagram and superconductivity from ab-initio models of twisted WSe_2*

12:00 - 13:40 • Lunch

Large Lecture Theatre

13:40 - 14:00 Paweł Jakubczyk — *Landau damping and quantum criticality in Fermi systems from the Wilsonian RG perspective*

14:00 - 14:20 Mireia Tolosa-Simeón — *Quantum critical Dirac semimetals and finite-temperature effects*

14:20 - 14:40 Vincent Grison — *From Bose glass to Many-Body Localization in a one-dimensional disordered Bose gas*

14:40 - 15:00 Ivan Balog — *Dynamics in quantum random-field systems: localization or activation?*

Jub-155

13:40 - 14:00 Charlie Cresswell-Hogg — *Strongly coupled four-fermion fixed points in four dimensions*

14:00 - 14:20 Francesco Del Porro — *Chiral Lagrangian as a proxy for ASQG*

14:20 - 14:40 Anca Preda — *Renormalizability and UV behavior of 5D gauge theories*

14:40 - 15:00 Andreas Trautner — *RG fixed points from outer automorphisms and goofy transformations*

Jub-144

13:40 - 14:00 Yuepeng Guan — *The θ-vacuum from functional renormalisation*

14:00 - 14:20 Tom Steudtner — *Perturbatively Exact Fixed Points in Three Dimensions*

14:20 - 14:40 Max Uetrecht — *Modified Forward Scattering and Unitarity in Matter Chern–Simons Theory*

14:40 - 15:00 Félix Rose — *New approach to OPE coefficients from the FRG*

15:00 - 15:30 • Coffee

15:30 - 16:00 • 1-min Poster Talks (Session 1)

16:00 - 16:30 Benjamin Knorr — *Analytic results in Asymptotic Safety*

16:30 - 17:00 Yannick Kluth — *From Functional to Ricci Flows: Asymptotic Safety in Perturbation Theory*

17:00 - 17:30 • 1-min Poster Talks (Session 2)

17:30 - 18:00 • Fish & Chips

18:00 - 21:00 • Poster Session

Wednesday 2 Sep

9:00 - 9:30 Fabian Rennecke — *Dense QCD and the moat regime*

9:30 - 10:00 Gergely Fejős — *Existence of IR fixed points in the QCD chiral transition*

10:00 - 10:30 Roman Zwicky — *Gravitational Form Factors, Conformal Symmetry and the Conformal Window*

10:30 - 11:00 • Coffee

11:00 - 11:30 Ginestra Bianconi — *Gravity from Entropy*

11:30 - 12:00 Marc Schiffer — *Asymptotically safe quantum gravity: functional and lattice perspectives*

12:00 - 14:00 • Buffet Lunch

Large Lecture Theatre

14:00 - 14:20 Johanna Borissova — *$d \geq 4$ gravitational vacua and black hole thermodynamics from $2D$ dilaton theories*

14:20 - 14:40 Nikolaos Tetradis — *Entanglement and renormalization-group flow*

14:40 - 15:00 Lucien Heurtier — *How Sensitive is Cosmic Inflation to Quantum Corrections? An ERG Approach.*

15:00 - 15:20 Sarben Sarkar — *The axion coupling accelerates the Universe through $\mathcal{PT}$-symmetric phases*

15:20 - 15:40 Fabian Wagner — *Prospects for scalar-tensor cosmology in asymptotically safe quantum gravity*

Jub-155

14:00 - 14:20 Alvaro Pastor Gutierrez — *Thermal precondensation and its appeareance in gauge-fermion theories*

14:20 - 14:40 Katsumi Itoh — *Functional Renormalization Group Flows and Gauge Consistency*

14:40 - 15:00 Hao-Lin Li — *The Fate of Chiral Gauge Theory*

15:00 - 15:20 Ugo Mire — *Diquark Properties from First Principles*

15:20 - 15:40 Eric Oevermann — *Functional Renormalization of QCD in 1+1 dimensions*

Jub-144

14:00 - 14:20 Takato Mori — *Informational renormalization group*

14:20 - 14:40 Gian Paolo Vacca — *Exploring multi parameter optimization in FRG*

14:40 - 15:00 Adam Rançon — *Non-Gaussian statistics of the order parameter across a continuous phase transition*

15:00 - 15:20 Nicolas Paris — *Universal Crossover in the Three-Channel Charge Kondo Model at High Transparency*

15:20 - 15:40 Ashutosh Dash — *The Adjoint Field as an Influence Map: Sensitivity Analysis of FRG Flows*

15:40 - 16:10 • Coffee

16:10 - 16:40 Massimiliano Gubinelli — *Stochastic observables and constructive RG*

16:40 - 17:10 Lingxiao Wang — *Diffusion Models as Stochastic Quantisation*

17:10 - 17:40 Kevin Falls — *Renormalisation Group approach to General Relativity*

Thursday 3 Sep

Terrace Room

9:00 - 9:20 Astrid Eichhorn — *Asymptotically safe Standard Model*

9:20 - 9:40 Brian Dolan — *Fixed points of the renormalisation group flow the CKM and PMNS matrices : CP violation in the Standard Model and beyond*

9:40 - 10:00 Zois Gyftopoulos — *Near-criticality of the neutrino sector of the Standard Model*

10:00 - 10:20 Daniele Rizzo — *Quantum gravity contributions to the gauge and Yukawa couplings in proper time flow*

11:00 - 11:20 Gabriel Assant — *Spectral Functions of Lorentzian Quantum Gravity*

11:20 - 11:40 Angelo Portas Chiesa — *Unitarity at all scales: Towards 2-to-2 scattering of scalars in Asymptotically Safe Quantum Gravity.*

11:40 - 12:00 Diego Buccio — *Understanding IR divergences in higher derivative theories*

12:00 - 12:20 Facundo Gutierrez — *Renormalization Group Approach to the Gravitational Two-Body Problem*

Gallery Room 1

9:00 - 9:20 Alessandro Codello — *Rethinking Dimensional Regularization in Critical Phenomena*

9:20 - 9:40 Piero Beretta — *Functional Dimensional Regularization for O(N) Models*

9:40 - 10:00 Gonzalo De Polsi — *Conformal Symmetry as an Organizing Principle for the Derivative Expansion*

10:00 - 10:20 Shunsuke Yabunaka — *Mass generation at a fixed point: A Functional Renormalization Group Study of the tricritical O(N) model in d=3 and N=∞*

11:00 - 11:20 Fanny Eustachon — *A complex LPA for the critical and multicritical Lee-Yang fixed points*

11:20 - 11:40 Bilal Hawashin — *Exploring Temperature-Resistant Order in Quantum Field Theories*

11:40 - 12:00 Nicolás Wschebor — *Derivative Expansion, Frustrated Antiferromagnets and $O(N) \times O(2)$ models*

12:00 - 12:20 Saswato Sen — *Critical Phenomena on the Bethe Lattice*

Gallery Room 2

9:00 - 9:20 Wei-jie Fu — *Density functional theory of renormalization group in nuclear matter*

9:20 - 9:40 Franz Richard Sattler — *Precondensation and inhomogeneous instabilities in high-density QCD*

9:40 - 10:00 Chuang Huang — *Pion Distribution Amplitudes from Functional QCD*

10:00 - 10:20 Bernd-Jochen Schaefer — *FRG Constraints on Diquark Pairing: Implications for Color-Superconducting Quark Matter*

11:00 - 11:20 Sankarshan Sahu — *Triviality doesn't mean Gaussianity: A Renormalization Group perspective*

11:20 - 11:40 Semanti Dutta — *SO (1, d+1) symmetry of the exact RG equation*

11:40 - 12:00 Alfiia Mukhaeva — *Summation of logarithmic quantum corrections based on the locality of QFT*

12:00 - 12:20 Denis Tolkachev — *Linearity in the renormalization group equations*

10:20 - 11:00 • Coffee

12:20 - 13:30 • Lunch

13:30 - 18:00 • Excursion

Friday 4 Sep

9:00 - 9:30 Léonie Canet — *Zonostrophic instability in beta-plane turbulence*

9:30 - 10:00 Vladimir Rosenhaus — *Weak to strong wave turbulence: RG, large N, and epsilon expansion*

10:00 - 10:30 Chiu Fan Lee — *Universality Far from Equilibrium: New Fixed Points and New Challenges for RG*

10:30 - 11:00 • Coffee

11:00 - 11:30 Yuto Ashida — *Exact RG and generative diffusion model*

11:30 - 12:00 Jan M. Pawlowski — *The Hunting of Physics with Machine Learning through the (f)RG Looking Glass, and what we found there: An Agony, in two to eight Fits*

12:00 - 12:30 Chris Hooley — *Non-Fermi-liquid metals and phase reconstruction: an FRG perspective*

12:30 - 14:00 • Lunch

Large Lecture Theatre

14:00 - 14:20 Liubov Gosteva — *Scaling regimes of the 1D Kuramoto-Sivashinsky equation*

14:20 - 14:40 Tilman Enss — *Long range to short range crossover in one dimension*

14:40 - 15:00 Laura Batini — *Dynamical criticality beyond the overdamped limit*

15:00 - 15:20 Olivier Coquand — *Wave interaction in astrophysical plasmas*

15:20 - 15:40 Riccardo Finotello — *A Functional Renormalization Group Approach to Anomaly Detection via Dimensional Phase Transitions*

Jub-155

14:00 - 14:20 Takeru Yokota — *Physics-informed neural networks for solving FRG*

14:20 - 14:40 Yang-yang Tan — *Solving Functional Renormalization Group Equations with Neural Networks*

14:40 - 15:00 Andras Laszlo — *Existence theorem on the UV limit of Wilsonian RG flows*

15:00 - 15:20 Stefan Floerchinger — *Flow equations of second order*

15:20 - 15:40 Antal Jakovác — *Singularities in the RG flow*

Jub-144

14:00 - 14:20 Kilian Fraboulet — *Fermionic fRG with interaction flows : applications to electron-phonon systems*

14:20 - 14:40 Hannes Braun — *Renormalisation group approaches for SU(N)xSU(M) symmetric Hubbard models*

14:40 - 15:00 Richard Schmidt — *Functional renormalization group approach to boson-induced superconductivity in Bose-Fermi mixtures*

15:00 - 15:20 Andreas Rückriegel — *Functional renormalization group for extremely correlated electrons*

15:20 - 15:40 Thomas Sheerin — *Control of ordered phases by manipulation of Van Hove singularities: insights from truncated-unity FRG*

15:40 - 16:10 • Coffee

16:10 - 16:40 Christopher Herzog — *Defect conformal field theories that are free in the bulk: A status report*

16:40 - 17:10 Enrico Pajer — *Unitarity and renormalization of cosmological correlators*

17:10 - 19:00 • Free time

19:00 - open end • Conference Dinner

Saturday 5 Sep

9:30 - 10:00 Christof Wetterich — *Fermi scale from quantum gravity scaling solution*

10:00 - 10:30 Neil Turok — *The conformally flat limit of quadratic gravity (CFQG) and beyond*

10:30 - 11:00 • Break

11:00 - 11:30 Tim Morris — *Asymptotic behaviour of the derivative expansion in the ERG*

11:30 - 12:00 Friederike Ihssen — *Applications of the physics-informed renormalisation group*

12:00 - 12:30 Holger Gies — *Functional Renormalization and relativistic Luttinger fermions*

12:30 - 14:00 • Lunch / Departure

Social Programme

Tue evening Poster Session
Jubilee Building atrium, 18:00–21:00.

Thu afternoon Conference Excursion
Self-guided walk along the Seven Sisters. Coaches depart campus at approx. 13:30 and return at approx. 17:30, arriving back on campus around 18:00. Appropriate shoes/clothing recommended; some water will be provided, but bringing your own bottle is a good idea too.

Fri evening Conference Dinner
Malmaison, Brighton Marina — welcome drink at 19:00, dinner at 19:30. Malmaison Brighton, The Waterfront, Brighton Marina, Brighton and Hove, BN2 5WA.

Join the ERG2026 WhatsApp group for conference updates and informal chat.

morning

Tuesday 1 Sep

9:00 - 9:30 • Welcome

9:30 - 10:00 Igor Herbut — *Unified theory of interacting Dirac fermions in two dimensions, and the dark side of the Gross-Neveu model*

10:00 - 10:30 Lennart Klebl — *Towards First-Principles Functional Renormalization Group for Quantum Materials*

10:30 - 11:00 • Coffee

11:00 - 11:30 Nicolo Defenu — *Superdiffusion and chaos from Bernoulli randomness on simple graphs*

11:30 - 12:00 Laura Classen — *FRG phase diagram and superconductivity from ab-initio models of twisted WSe_2*

12:00 - 13:40 • Lunch

afternoon

ERG2026 — Tuesday 1 September

Parallel Sessions · 13:40 – 15:00

Large Lecture Theatre	Jub-155	Jub-144
13:40 - 14:00	13:40 - 14:00	13:40 - 14:00
14:00 - 14:20	14:00 - 14:20	14:00 - 14:20
14:20 - 14:40	14:20 - 14:40	14:20 - 14:40
14:40 - 15:00	14:40 - 15:00	14:40 - 15:00

Upload your 1-min slides!

15:00 - 15:30 • Coffee

15:30 - 16:00 • 1-min Poster Talks (Session 1)

16:00 - 16:30 Benjamin Knorr — *Analytic results in Asymptotic Safety*

16:30 - 17:00 Yannick Kluth — *From Functional to Ricci Flows: Asymptotic Safety in Perturbation Theory*

17:00 - 17:30 • 1-min Poster Talks (Session 2)

17:30 - 18:00 • Fish & Chips

18:00 - 21:00 • Poster Session

Put ou your posters!

Best Poster Prize

Exact Renormalisation Group 2026
1–5 September 2026
University of Sussex, Brighton, UK

Several categories
Your help is needed
Vote for Best Poster