

Session Program

22-27 Sept 2024



12th International Conference on the Exact Renormalization Group 2024 (ERG2024)

Parallel A

Maison des Congrès
Chem. des Grandes Isles 7, 1865 Ormont-Dessus Les Diablerets Switzerland

Monday 23 September

14:30

Parallel A

Session |

Location: Maison des Congrès, Chem. des Grandes Isles 7, 1865 Ormont-Dessus Les Diablerets Switzerland

14:30–14:50

Information geometry and the renormalization group

Speaker

Stefan Floerchinger

14:50–15:10

Interacting UV fixed points and conformal windows of 4d super-Yang-Mills theories with matter

Speaker

Gabriel Picanco Costa

15:10–15:30

Influence of additional dimension-4 scalar operators on asymptotic safety in the Litim-Sannino model

Speaker

Alfiia Mukhaeva

15:30–15:50

A Probabilistic View of Renormalization Group Flows

Speaker

Aaron Held

15:50

16:20

Parallel A

Session |

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16:20–16:50

Wilsonian RG for 3D Wess-Zumino--Witten theory with Stiefel-manifold target space

Speaker

Shouryya Ray

16:50–17:20

Physics-informed renormalisation group flows

Speaker

Friederike Ihssen

17:20–17:40

Towards the phase diagram of QCD and its critical endpoint

Speaker

Franz Richard Sattler

17:40–18:00

Quantum field theories of relativistic Luttinger fermions

Speaker

Marta Picciau

18:00

Tuesday 24 September

16:40

Parallel A

Session |**Location:** Maison des Congrès, Chem. des Grandes Isles 7, 1865 Ormont-Dessus Les Diablerets Switzerland

16:40–17:10

Effective field theory at nuclear scales from the functional renormalization group

Speaker

Jean Paul Ebran

17:10–17:40

Dynamic Criticality and Dissipation in Model A

Speaker

Laura Batini

17:40–18:00

New Results for Reggeons using FRG and Wilson Regularization and ε - expansion

Speaker

Carlos Contreras

18:00

Wednesday 25 September

14:30

Parallel A

Session |

Location: Maison des Congrès, Chem. des Grandes Isles 7, 1865 Ormont-Dessus Les Diablerets Switzerland

14:30–14:50

Synergies between UV-safety and model building

Speaker

Gudrun Hiller

14:50–15:10

Conformality, dynamical chiral symmetry breaking and confinement: interplay and cartography of gauge-fermion dynamics

Speaker

Álvaro Pastor Gutiérrez

15:10–15:30

Functional renormalisation of UV-safe gauge theories coupled to matter

Speaker

Daniele Rizzo

15:30–15:50

From fluctuating gravitons to Lorentzian quantum gravity and scattering amplitudes

Speaker

Manuel Reichert

15:50

16:20

Parallel A

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16:20–16:50

Entanglement in an expanding universe

Speaker

Nikolaos Tetradis

16:50–17:20

Order of the $SU(N_f) \times SU(N_f)$ chiral transition

Speaker

Gergely Fejos

17:20–17:40

Strangeness neutrality and QCD phase structure from functional renormalization group

Speaker

Rui Wen

17:40–18:00

Universal critical dynamics in QCD

Speaker

Johannes Roth

18:00

Thursday 26 September

14:30

Parallel A

Session |**Location:** Maison des Congrès, Chem. des Grandes Isles 7, 1865 Ormont-Dessus Les Diablerets Switzerland

14:30–14:50

Analytic solutions for scaling dimensions of highly irrelevant operators in LPA and $f(R)$ approximations

Speaker

Tim Morris

14:50–15:10

Wavelet view on the Landau poles in quantum field theory

Speaker

Mikhail Altaisky

15:10–15:30

Asymptotic Safety in Generalized Proca Theories

Speaker

Sara Rufrano Aliberti

15:30–15:50

Essential Renormalization Group Equation for Gravity coupled to Scalar Matter

Speaker

Nobuyoshi Ohta

15:50