

## **Session Program**

**22-27 Sept 2024**



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

## ***Poster Session***

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

Tuesday 24 September

14:30

Poster Session

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

Renormalization Flow of Nonlinear Electrodynamics

Speaker  
Julian Schirrneister

Asymptotically safe gauge-gravity systems

Speaker  
Marc Schiffer

Generalization of the Central Limit Theorem to critical systems: A Perturbative Approach

Speaker  
Sankarshan SAHU

UV conformal window of 4d gauge theories with matter

Speakers  
Daniel Litim, Nahzaan Riyaz

Single-boson exchange formulation of the Schwinger-Dyson equation and its application to the fRG

Speaker  
Miriam Patricolo

Critical dynamics with the aFRG

Speaker  
Patrick Niekamp

Information-theoretical aspects of renormalization group

Speaker  
Ryota Nasu

Phase Structure of the Quark-Meson-Diquark Model

Speaker  
Ugo Mire

TBA

Speaker  
Yadikaer Maitiniyazi

Towards nonperturbative nonlocal correlations in the 2d Hubbard Model with the fRG

Speaker  
Marcel Krämer

Dilaton Quantum Gravity

**Speaker**

Athanasios Kogios

**A new universality class describes Vicsek's flocking phase in physical dimensions****Speaker**

Patrick Jentsch

**Fermionic self energy near quantum criticality in two dimensions****Speaker**

Mateusz Homenda

**Walking, Nordic Walking, and Deconfined Pseudocriticality****Speaker**

Bilal Hawashin

**Building nuclear Energy Density Functionals with the FRG****Speaker**

Louis Heitz

**fRG Analysis and Fluctuation Diagnostics of the Hubbard-Holstein Model****Speaker**

Aiman Al-Eryani

**TBA****Speaker**

Yuepeng Guan

**Diagrammatic analysis of Anderson's orthogonality catastrophe****Speaker**

Marcel Gievers

**Scaling exponents in quantum gravity****Speaker**

Kevin Falls

**Higher spin theory/ $O(N)$  vector model duality and Exact Renormalisation Group****Speaker**

Pavan Dharanipragada

**Lorentzian functional renormalization and the Nash-Moser theorem****Speaker**

Edoardo D'Angelo

**Exploring the landscape of large- $N$  fermionic theories****Speaker**

Charlie Cresswell-Hogg

**The NPRG derivative expansion of  $O(N)$  models: conformal symmetry constraints and the principle of minimum sensitivity****Speaker**

Santiago Cabrera Sosa

**Physical running in quadratic gravity**

**Speaker**

Diego Buccio

**Scalar and TT mode spectral functions of Lorentzian quantum gravity****Speaker**

Gabriel Assant

**Interplay of chiral transitions in the standard model****Speaker**

Richard Schmieden

**Functional renormalization group for the Hubbard model at infinite on-site repulsion via Hubbard X-operators****Speaker**

Jonas Arnold

**Renormalized mean-field form of the static spin correlator and approximate nature of the quantum-to-classical correspondence****Speaker**

Benedikt Schneider

**U(1) Gauge-Field-Driven Non-Fermi Liquids: The Functional Renormalization Group and Symmetries****Speaker**

Thomas Sheerin

**On harvesting physical predictions from asymptotically safe quantum field theories****Speaker**

Agustín Silva

**An analysis of the regularization scheme dependence in low-energy effective field theories****Speaker**

Jonas Stoll

**Hydrodynamic Transport: From QFT to a Shear Viscosity Coefficient using the FRG****Speaker**

Tim Stötzel

**Realtime quantities from spectral flows and other functional methods****Speaker**

Jonas Wessely

**Quark-Meson model from the real-time functional renormalization group****Speaker**

Yunxin Ye

16:10