

Session Program

22-27 Sept 2024



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

Parallel B

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

Monday 23 September

14:30

Parallel B

Session |

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

14:30–14:50

Critical geometry approach to phase transitions

Speaker

Andrea Trombettoni

14:50–15:10

Conformal constraints and the derivative expansion

Speaker

Gonzalo De Polsi

15:10–15:30

Instantons within the Functional renormalization group

Speaker

Ivan Balog

15:30–15:50

Probability distribution function of the 2d Ising order parameter

Speaker

Félix Rose

15:50

16:20

Parallel B

Session |

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

16:20–16:50

Multiscale Functional Renormalization Group Approach to the 1D Extended Hubbard Model

Speaker

David K. Campbell

16:50–17:20

Quantum critical Dirac semimetals and finite-temperature effects

Speaker

Mireia Tolosa Simeon

17:20–17:40

New universality class describes Vicsek's flocking phase in physical dimensions

Speaker

Patrick Jentsch

17:40–18:00

Optimization and Stabilization of Functional Renormalization Group Flows

Speaker

Niklas Zorbach

18:00

Tuesday 24 September

16:40

Parallel B

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

16:40–17:10

Local 2PI vertex approximation: Nanoflakes, ferromagnets, and SU(2) gauge theory for antiferromagnets

Speaker

Andrey Katanin

17:10–17:40

The zoo of states in the 2D Hubbard model

Speaker

Robin Scholle

17:40–18:00

Full potential approach to frustrated antiferromagnets

Speaker

Shunsuke Yabunaka

18:00

Wednesday 25 September

14:30

Parallel B

Session |

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

14:30–14:50

Bosonization for fermionic fRG at weak and strong couplings

Speaker

Kilian Fraboulet

14:50–15:10

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

Speaker

Miriam Patricolo

15:10–15:30

The role of quenched disorder in polymerized membranes

Speaker

Dominique Mouhanna

15:30–15:50

Generalized Hertz action for quantum criticality in Fermi systems

Speaker

Pawel Jakubczyk

15:50

16:20

Parallel B

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16:20–16:50

Secondary instabilities of 2D altermagnets

Speaker

Nikolaos Parthenios

16:50–17:20

Accurate estimates of universal quantities: Monte Carlo simulations of improved lattice models and finite size scaling

Speaker

Martin Hasenbusch

17:20–17:40

Phase diagram of the J1-J2 quantum Heisenberg model for arbitrary spin

Speaker

Andreas Rückriegel

17:40–18:00

The inviscid fixed point of the multi-dimensional Burgers-KPZ equation

Speaker

Liubov Gosteva

18:00

Thursday 26 September

14:30

Parallel B

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

14:30–14:50

Recursive algorithm for generating high-temperature expansions for spin systems and the chiral non-linear susceptibility

Speaker

Peter Kopietz

14:50–15:10

Quantum effects on unconventional pinch-point singularities from pseudo-fermion functional renormalization

Speaker

Lasse Gresista

15:10–15:30

Real-frequency quantum field theory applied to the single-impurity Anderson model

Speaker

Nepomuk Ritz

15:30–15:50

divERGe - an open source functional renormalization code for material calculations

Speaker

Jonas Profe

15:50