



# **$\Delta$ -Meeting – Programme**

**QCD, Nonequilibrium Dynamics, Complex Systems,  
and  
Simulational Methods**

**Thursday 28.4.**

**14:00 – 19:00**

**Philosophenweg 16**

**Coming in**

**13:00**

**Lunch**

- 14:00 S. Westhoff**      **Top-Quark Physics and recent highlights at LHC**  
**15:00 R. Sondenheimer**   **Vacuum stability from generalized Higgs interactions**  
**15:30 A. Rothkopf**      **Chiral instabilities**

**16:00 - 17:30**

**Break & Teilchentee**

- 17:30 A. Maas**      **Particle spectra in models of new physics**  
**18:00 C. Ewerz**      **Heavy  $q$ - $q$ bar free energy in medium from AdS/CFT**  
**18:30 W. Unger**      **QCD phase diagram in the strong coupling regime**  
**19:00 S. Flörchinger**   **Variational principle for theories with dissipation**

**20:00**

**Conference dinner**

**FRIDAY 29.4.**

**9:00 – 19:30**

**Philosophenweg 16**

- 9:00 C. Gattringer** Abelian color cycles: A new approach to strong coupling expansion and dualization of non-abelian lattice field theories
- 9:30 K. Langfeld** Can the density-of-states approach solve strong sign problems?
- 10:00 E. Bittner** Multi-canonical Monte-Carlo vs Wang-Landau method: a comparison

**10:30 Break**

- 11:00 E. Seiler** Complex Langevin with meromorphic drift
- 11:30 A. Alexandru** Monte-Carlo calculations on Lefschetz thimbles and beyond
- 12:00 K. Boguslavski** Universality classes far from equilibrium:  
From heavy-ion collisions to superfluid Bose systems

**12:30 Lunch**

- 14:30 L. Amendola** Testing gravity at cosmological scales
- 15:00 J. Polonyi** Decoherence time scales
- 15:30 S. Nagy** Quantum renormalization group

**16:00 - 16:30 Break & Information**

- 16:30 R. Kühn** Spectra of random Markov matrices and relaxation in complex systems
- 17:00 H. Gies** Asymptotically free non-Abelian Higgs models
- 17:30 T. Kovacs** TBA

**18:00 Break**

- 18:30 T. Rindlisbacher** Strong coupling approach to bound states
- 19:00 F. Ziegler** Stochastic Quantization with Colored Noise

**20:00 Exhibition & music programme**

**SATURDAY 30.4.**

**9:00 – 12:30**

**Philosophenweg 16**

- 9:00 B.-J. Schaefer**    **Thermodynamics in a finite box  
in the functional renormalization group**
- 9:30 M. Scherzer**    **The phase diagram of QCD from low energy effective models**
- 10:00 R. Hoffmann**    **Yang-Mills thermodynamics**

**10:30**

**Break**

- 11:00 F. Bruckmann**    **Phase diagram of the  $O(3)$  model through lattice dualization**
- 11:30 C. Schubert**     **$N$ -gluon vertices from the string-inspired formalism**
- 12:00 M. Ilgenfritz**    **Signatures of dyons in lattice QCD**

**12:30**

**Closing & Lunch**