



Δ -Meeting – Programme

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

Thursday 10.1.

16:15 – 17:15

Philosophenweg 16

D.F. Litim

Pulling oneself over the fence:

A bootstrap for quantum gravity

19:00

Dinner

FRIDAY 11.1.

9:00 – 20:00

IWH

- 9:00 B.-J. Schaefer On baryons and the QCD phase structure**
9:30 N. Strodthoff Aspects of QCD-like theories at finite density
10:00 M. Karl Non-thermal fixed points, vortex dynamics, and superfluid turbulence

10:30 Break

- 11:00 K. Falls Black hole thermodynamics under the microscope**
11:30 A. Samberg Heavy quarks in strongly coupled plasmas at finite chemical potential via holography
12:00 I. Boettcher Equation of state of the unitary Fermi gas
12:30 T. Enss Quantum limited spin transport in ultracold atomic gases

13:00 Lunch

- 14:00 M. Oberthaler Universal scaling in quenches with two component condensates**
14:40 G. Aarts How to climb Mount Everest: the sign problem at finite density
15:20 D. Banerjee Quantum simulation of Abelian and Non-Abelian gauge theories using ultra-cold atoms in optical lattices

15:50 Break & Information

- 16:30 D. Sexty Gauge cooling in complex Langevin for QCD with heavy quarks**
17:00 J. Myers A study of the fermionic determinant in QCD-based systems at small chemical potential
17:30 T. Herbst On the phase structure and thermodynamics of QCD

18:00 Break

- 18:30 S. Borsanyi On the deconfinement temperature in full QCD**
19:00 J. Langelage Effective theory for thermal lattice QCD with heavy quarks
19:30 W. Unger Corrections to the strong coupling limit of staggered lattice QCD

20:00 Conference dinner at IWH

