

Functional Methods in Hadron and Nuclear Physics

Monday 21.8.2017

09:00 – 10:00 **C.S. Fischer** (Hadron spectra and QCD phase diagram from DSEs)

10:00 – 10:45 **F. Rennecke** (Fluctuations in 2+1 flavor QCD)

10:45 – 11:15 coffee break

11:15 – 12:00 **M. Mitter** (Quark, gluon and meson correlators of QCD)

12:00 – 12:30 flash talks/discussion

12:30 – 14:30 Lunch

14:30 – 15:30 **J. Berges** (Gauge theories far from equilibrium: functional integrals & ultracold atoms)

15:30 – 16:30 **R. Alkofer** (Dynamical Chiral Symmetry Breaking in QCD: Delicate and Intricate)

16:30 – 17:00 coffee break

17:00 – 17:45 **T. Yokota** (Tachyonic instability of the scalar mode prior to QCD critical point based on FRG method)

17:45 – 18:30 discussion

Tuesday 22.8.2017

09:00 – 10:00 **J. Braun** (Symmetry breaking patterns in QCD at high density)

10:00 – 10:45 **N. Wink** (Real time correlation functions at finite temperature)

10:45 – 11:15 coffee break

11:15 – 12:00 **S. Flörchinger** (Thermal excitation spectrum from entanglement in an expanding QCD string)

12:00 – 12:30 flash talks/discussion

12:30 – 14:30 Lunch

14:30 – 15:30 **M. Wagner** (Tetraquarks from lattice QCD)

15:30 – 16:30 **O. Baer** (Nucleon-pion-state contamination in hadronic observables from Lattice QCD)

16:30 – 17:00 coffee break

17:00 – 17:45 **J. Bartels** (High energy scattering in QCD - from small to large distances)

17:45 – 18:30 discussion

Wednesday 23.8.2017

09:00 – 10:00 **J. Papavassiliou** (The dynamics of the gluon mass)

10:00 – 10:45 **M. Barabanov** (Probing of strong interactions and hadron matter with charmonium-like studies)

10:45 – 11:15 coffee break

11:15 – 12:00 **G.P. Vacca** (Critical QFTs: Functional RG & CFT techniques)

12:00 – 12:30 **F. Ziegler** (Thermal correlation functions in gauge theories at general frequencies)

12:30 – 14:30 Lunch

14:30 – 15:30 **M.P. Lombardo** (Time correlators and spectral functions)

15:30 – 16:15 **R.-A. Tripolt** (In-medium spectral functions with the FRG)

16:15 – 16:45 coffee break

16:45 – 17:30 **M.Q. Huber** (Propagators and vertices of Landau gauge Yang-Mills theory)

17:30 – 18:15 discussion

Thursday 24.8.2017

09:00 – 10:00 **D. Litim** (Asymptotic safety of gauge theories)

10:00 – 10:45 **N. Alkofer** (On (non-)polynomial $f(R)$ gravity in the FRG)

10:45 – 11:15 coffee break

11:15 – 12:00 **J. Eser** (Low-energy limit of the extended linear sigma model from the FRG approach)

12:00 – 12:30 flash talks/discussion

12:30 – 14:30 Lunch

14:30 – 15:30 **M. Birse** (Universal behaviour of four-body systems from a functional renormalisation group)

15:30 – 16:30 **O. Zanusso** (Conformal field theories of gods and renormalization group flows of men)

16:30 – 17:00 coffee break

17:00 – 17:45 **K. Kondo** (On the mechanism for confinement and deconfinement transition)

17:45 – 18:30 discussion

Friday 25.8.2017

09:00 – 10:00 **M. Buballa** (Fluctuation effects on inhomogeneous chiral condensates)

10:00 – 10:45 flash talks/discussion

10:45 – 11:15 coffee break

11:15 – 12:15 **L. von Smekal** ($O(4)$ model spectral functions from classical-statistical lattice simulations)

12:15 end of workshop, lunch