First Week – from 22.8 to 26.8

Mon 22.8.

No seminar is scheduled. A discussion space (K102) is available all the day.

Tue 23.8.

No seminar is scheduled. A discussion space (K102) is available all the day.

Wed 24.8.

No seminar is scheduled. A discussion space (K102) is available all the day. Interested participants are welcome to attend the joint session with another workshop:

Thermal Quantum Field Theory (22.8 – 24.8)

Speakers include: J. Berges, J.-P. Blaizot,, V. Skokov

The joint session is scheduled at 15:00—16:00 at Panasonic Auditorium

Thu 25.8.

Seminars from 10:00 at Y206 by E. Itou, H. Terao and whoever wishes to talk

E. Itou: Infrared fixed point for many flavor SU(N) gauge theory

H. Terao: Non-perturbative beta functions and scaling laws in QCD with many quark flavors

A discussion space (Y206) is available all the day.

Fri 26.8.

Seminars from 10:00 at Y206 by B. Klein, M. Scherer and whoever...

B. Klein: Chiral symmetry breaking and finite-volume effects

M. Scherer: Finite-size and particle-number effects in an ultracold Fermi gas at unitarity

A discussion space (Y206) is available all the day.

Second Week - from 29.8 to 2.9 (at Panasonic Auditorium)

Mon 29.8.

9:25	Opening Address
9:30 J. Berges	Universality far from equilibrium
10:30 - 11:00	Coffee Break
11:00 B. Nowak	Nonthermal fixed points in turbulent Bose gases
12:00-15:00	Lunch break
15:00 N. Xu	High-energy nuclear collisions and the QCD phase structure
16:00 BJ. Schaefer	With the FRG towards the QCD phase diagram
17:00 KI. Kondo	Understanding the entanglement between confinement and chiral-symmetry-breaking from QCD

Tue 30.8.

9:30	S. Flörchinger	Turbulent fluctuations in heavy ion collisions
10:30	- 11:00	Coffee Break
11:00	T. Kunihiro	RG derivation of relativistic hydrodynamic equations
		as the infrared dynamics of Boltamann equation
12:00-	14:30	Lunch break
14:30	S. Jochim	Few-body physics with ultracold fermions
15:30	- 16:00	Coffee Break
16:00	P. Kopietz	Non-equilibrium time evolution of bosons from the functional renormalization group
17:00	M. Tezuka	One-dimensional Fermi gases: Density-matrix renormalization
		group study of ground state properties and dynamics

Wed 31.8.

9:30 T. Mukaiyama Universal thermodynamics of a unitary Fermi gas 10:30 - 11:00Coffee Break 11:00 R. Schmidt Renormalization group flow of spectral functions for ultracold quantum gases Lunch break 12:00-14:30 14:30 K. Harada A Wilsonian view on the nuclear effective field theory 15:30 - 16:00 **Coffee Break** 16:00 K. Hebeler New Applications of Renormalization Group Methods in **Nuclear Physics** 17:00 A. Andronic Hadron production at chemical freeze-out and the QCD phase diagram

Thu 1.9.

9:30 B. Delamotte	Non-perturbative renormalization analysis of the
).50 B. Bellimotte	·
	Kardar-Parisi-Zhang equation
10:30 – 11:00	Coffee Break
11:00 H. Sonoda	Universality of ERG formalism, revisited
12:00-14:30	Lunch break
14:30 Y. Igarashi	Realization of symmetries and reduction of the
	Polchinski equations in the ERG
15:30 - 16:00	Coffee Break
16:00 A. Ipp	Scalar theory pressure beyond the local potential approximation
17:00 G. Tarjus	Nonperturbative functional RG for disordered systems:
	the case of the random-field Ising model

Fri 2.9.

9:30 F. Saueressig Asymptotically safe gravity – From Euclidean to

Lorentzian signature

10:30 – 11:00 Coffee Break

11:00 M. Pietroni Coarse-graining and resummation of cosmological

Perturbations

12:00 D. Litim TBA

13:00-13:05 Closing remarks

Third Week - from 5.9 to 9.9

Mon 5.9.

Seminars from 10:00 at Y206 by K. Itoh, V. Skokov and whoever...

K. Itoh: Anomalies in the ERG Approach

V. Skokov: QCD phase diagram with fluctuations of conserved charges

A discussion space (Y206) is available all the day.

Tue 6.9.

Seminars from 10:00 at Y206 by M. Mitter, M. Grahl and whoever...

M. Mitter: Aspects of two- and three-flavor chiral phase transitions

M. Grahl: Study of the two-flavor linear sigma model in presence of

the axial anomaly with the Functional Renormalization Group

A discussion space (Y206) is available all the day.

Wed 7.9.

Seminars from 10:00 at Y206 by A. Ohnishi, K. Fukushima, J. Pawlowski

A. Ohnishi: TBA

K. Fukushima: TBA

J. Pawlowski: TBA

A discussion space (Y206) is available all the day.

Thu 8.9.

Seminars from 10:00 at Y206 by whoever wishes to talk

A discussion space (Y206) is available all the day.

Fri 9.9.

Seminars from 10:00 at Y206 by whoever wishes to talk

A discussion space (Y206) is available all the day.