Extreme QCD 2008

Monday, July 21

09:00-09:45 Zoltan Fodor (Wuppertal)
The QCD phase transition on the lattice:
Approaching the continuum limit

09:45-10:30 Misha Stephanov (UIC)
Relativistic conformal hydrodynamics and holography

10:30-11:00 Break

11:00-11:45 Derek Teaney (Stony Brook)
Photo-emission from fast-heavy quarks in $AdS_5$

11:45-12:30 Peter Petreczky (BNL)
Heavy quarks and quarkonia at finite temperature

12:30-14:00 Lunch

14:00-14:30 Philippe de Forcrand (ETH)
Revisiting the strong coupling limit of lattice QCD

14:30-15:00 Simon Hands (Swansea)
Recent progress in Two Color QCD at High Baryon Density

15:00-15:30 Maria-Paola Lombardo (Frascati)
The phases of QCD in the $T, N_f$ plane

15:30-16:00 Break
16:00-16:30  Ludmila Levkova (Columbia)
Lattice calculation of the QCD equation of state with asqtad fermion

16:30-17:00  Rajiv Gavai (Tata)
Towards QCD thermodynamics using exact chiral symmetry on lattice

17:00-17:30  Rajamani Narayanan (Florida Intl.)
Chiral fermions and chemical potential
Tuesday, July 22

09:00-09:45  Frithjof Karsch (BNL)
(Non)-perturbative properties of high-T QCD from lattice calculations

09:45-10:30  Jac Verbaarschot (Stony Brook)
Phase of the Fermion Determinant at Nonzero Chemical Potential

10:30-11:00  Break

11:00-11:45  Aurel Bulgac (U. of Washington)
The Incredible Many Facets of the Unitary Fermi Gas

11:45-12:30  Will Detmold (U. of Washington)
Multi-meson States in Lattice QCD

12:30-14:00  Lunch

14:00-14:30  Boris Svistunov (UMass)
Diagrammatic Monte Carlo

14:30-15:00  Kevin Schmidt (Arizona State)
Pairing in neutron matter with Auxiliary field diffusion Monte Carlo

15:00-15:30  Andrei Kryevski (Washington U.)
Properties of Unitary Fermi Gas from the Epsilon Expansion

15:30-16:00  Break
16:00-16:30 Christoph Gattringer (Graz)
Chiral symmetry restoration, deconfinement and dressed Polyakov loops

16:30-17:00 Atsushi Nakamura (Hiroshima)
Quarks when they are confined and not confined

17:00-17:30 Falk Bruckmann (Regensburg)
Instanton constituents in sigma models and Yang-Mills theory at finite temperature
Wednesday, July 23

09:00-09:30  Owe Philipsen (Münster)
The chiral critical surface of QCD for \( \mu_B < 500 \) MeV

09:30-10:00  Keh-Fei Liu (Kentucky)
Finite Density Phase Transition with the Canonical Ensemble

10:00-10:30  Shinji Ejiri (BNL)
Study of QCD critical point at high temperature and density
by lattice simulations

10:30-11:00  Break

11:00-11:30  Gert Aarts (Swansea)
Stochastic quantization at finite chemical potential

11:30-12:00  Harvey Meyer (MIT)
Extracting transport properties of the QGP from lattice simulations

12:00-12:30  Masayuki Asakawa (Osaka)
Baryonic Spectral Functions at Finite Temperature

12:30-14:00  Lunch

14:00-14:30  Sourendu Gupta (Tata)
New results on the lattice at finite chemical potential

14:30-15:00  Kieran Holland (Pacific U.)
The finite-temperature deconfinement transition in pure gauge theory

15:00-15:30  Break
15:30-16:00  Urs Wenger (ETH)
            From fermions to loop and dimer models

16:00-16:30  Herman Krebs (Bonn/Jülich)
            Lattice Simulations with Chiral Nuclear Forces