



Scientific Program

2nd International Symposium on
'Non-equilibrium Dynamics'
(NeD-2012)

&

the 3d Network Workshop on
'Theory of UltraRelativistic heavy Ion Collisions'
(TURIC-2012)

25 - 30 June 2012,
Hersonissos, Crete, Greece



25 June, Monday

Chair: Krzysztof Redlich

- 9:00-9:10 Opening
9:10-9:55 Christian Fischer (*Giessen*)
 Lecture on 'QCD phase diagram with functional methods' - Part 1
9:55-10:25 Hubert Hansen (*Lyon*)
 'High density phase of QCD in the PNJL model'
10:25-10:55 Chihiro Sasaki (*Frankfurt*)
 'Trace anomaly, chiral symmetry breaking and baryons at high density '
- 10:55-11:15 *coffee break*
- 11:15-11:45 David Blaschke (*Wroclaw*)
 'Microscopic model for chemical freezeout in heavy-ion collisions '
- 11:45-12:15 Igor Mishustin (*Frankfurt*)
 'Non-equilibrium phase transitions in nuclear collisions'

afternoon break

Chair: Pol-Bernard Gossiaux

- 17:00-17:25 Christoph Herold (*Frankfurt*)
 'Polyakov loop extended chiral fluid dynamics at finite densities'
- 17:25-17:50 Rudy Marty (*Frankfurt*)
 'Relativistic Quantum Molecular Dynamics :
 from medium properties to Heavy Ions Collisions'
- 17:50-18:15 Pok Man Lo (*GSI*)
 'New Effective Model of the Polyakov Loop for the deconfinement phase transition'
- 18:15-18:25 *break*
- 18:25-18:50 Christian Wesp (*Frankfurt*)
 'Dynamical simulation of a linear sigma model - Fluctuations at the phase transition '
- 18:50-19:15 Peter Kovacs (*Budapest*)
 'Phenomenology from the extended linear sigma model: status of the scalar particles'
- 19:15-19:40 Salvatore Plumari (*Catania*)
 'Quasiparticle approach to hot QGP and Polyakov loop dynamics'

26 June, Tuesday

Chair: Carsten Greiner

- 9:00-9:45 Christian Fischer (*Giessen*)
Lecture on 'QCD phase diagram with functional methods' - Part 2
- 9:45-10:15 Francesco Becattini (*Florence*)
'Hadronization: does the chemical freeze-out curve meet the lattice QCD parton-hadron phase boundary?'
- 10:15-10:45 Klaus Werner (*Nantes*)
'Jets, Bulk Matter, and their Interaction in Heavy Ion Collisions at Several TeV'
- 10:45-11:05 *coffee break*
- 11:05-11:35 Olena Linnyk (*Giessen*)
'Review on PHSD results for HIC'
- 11:35-12:05 Vincenzo Greco (*Catania*)
'Transport approach at finite viscosity: collective flows and chemical equilibration'

afternoon break

Chair: Klaus Werner

- 17:00-17:25 Hannu Holopainen (*Frankfurt*)
'Dynamical freeze-out in event-by-event hydrodynamics'
- 17:25-17:50 Vitalii Ozvenchuk (*Frankfurt*)
'Dynamical equilibration of strongly-interacting 'infinite' parton matter'
- 17:50-18:15 Leonardo Tinti (*Florence*)
'Quantum spin tensor and transport coefficients in a relativistic fluid'
- 18:15-18:25 *break*
- 18:25-18:50 Joshua Vredevoogd (*Michigan*)
'Longitudinal Effects in Viscous Hydrodynamics'
- 18:50-19:15 Roman Yaresko (*Dresden*)
'Thermodynamics and transport coefficients of gluon plasma in a bottom-up AdS/QCD approach'
- 19:15-19:40 Rodion Kolevatov (*Oslo*)
'All-loop RFT fits to the total elastic and diffractive pp cross sections via the stochastic approach'

27 June, Wednesday

Chair: Laszlo Csernai

- 9:00-9:45 Christian Fischer (*Giessen*)
Lecture on 'QCD phase diagram with functional methods' - Part 3
- 9:45-10:15 Juergen Berges (*Heidelberg*)
'Turbulence and Bose Condensation: From Heavy Ions to Cold Atoms '
- 10:15-10:45 Thomas Gasenzer (*Heidelberg*)
'Topological excitations and turbulence in ultracold gases'
- 10:45-11:05 *coffee break*
- 11:05-11:35 Jan Pawlowski (*Heidelberg*)
'On transport coefficients in Yang-Mills theory'
- 11:35-12:05 Takeshi Kodama (*Rio de Janeiro & EMMI/GSI & FIAS*)
'How can we establish the inhomogeneity measure of the Initial Condition from the final state flow observables? '

afternoon break

Chair: John Harris

- 17:00-17:25 Stefano Carignano (*Darmstadt*)
'Inhomogeneous chiral symmetry breaking phases'
- 17:25-17:50 Volodymyr Konchakovski (*Giessen*)
'Chiral magnetic effect and flow in nucleus-nucleus collisions'
- 17:50-18:15 Hannah Petersen (*Duke*)
'How does triangular flow constrain the initial state granularity?'
- 18:15-18:25 *break*
- 18:25-18:50 Marcus Bluhm (*Nantes*)
'Radiative energy loss in the absorptive QGP'
- 18:50-19:15 Ioannis Bouras (*Frankfurt*)
'Transition From Ideal To Viscous Mach Cones In A Kinetic Transport Approach'
- 19:15-19:40 Achim Heinz (*Frankfurt*)
'Chiral density waves in a parity doublet model at cold and dense nuclear matter'

28 June, Thursday

Chair: Christina Market

- 9:00-9:45 John Harris (*Uni. Yale*)
'Review on 'Recent Heavy Ion Results from RHIC to LHC''
- 9:45-10:15 Krzysztof Redlich (*Wroclaw/CERN*)
'Finite volume corrections to moments of charge fluctuations in HIC '
- 10:15-10:45 Denes Molnar (*West Lafayette*)
'From on-shell transport to hydro and back'
- 10:45-11:05 *coffee break*
- 11:05-11:35 Elena Ferreiro (*Santiago de Compostella*)
'Fractional energy loss effect on Υ and J/ψ production'
- 11:35-12:05 Pol-Bernard Gossiaux (*Nantes*)
'J/Psi survival in hot plasma '

afternoon break

Chair: Takeshi Kodama

- 17:00-17:25 Marlene Nahrgang (*Nantes*)
'Influence of a realistic medium description and fluctuations on heavy quark observables'
- 17:25-17:50 Hamza Berrehrah (*Nantes*)
'New possible explanation of the small v_2 of the J/ψ 's in heavy ion collisions at RHIC'
- 17:50-18:15 Thomas Lang (*Frankfurt*)
'Charmonium dynamics in the UrQMD transport model'
- 18:15-18:25 *break*
- 18:25-18:50 Jan Uphoff (*Frankfurt*)
'Open heavy flavor at RHIC and LHC'
- 18:50-19:15 Alex Meistrenko (*Frankfurt*)
'Collisional energy loss of heavy quarks'
- 19:15-19:40 Irina Sagert (*MSU, East Lansing*)
'Shock wave studies via kinetic theory'

29 June, Friday

Chair: Vincenzo Greco

- 9:00-9:30 Christina Markert (*Austin*)
'Hadronic resonance measurements what do we know and what are the future plans?'
- 9:30-10:00 Burkhard Kampfer (*Dresden*)
'Medium modifications of hadrons and other particles '
- 10:00-10:30 Laura Tolos (*Barcelona*)
'Coupled-channel unitarized theory in matter (tentative)'
- 10:30-10:50 *coffee break*
- 10:50-11:20 Che-Ming Ko (*Texas A&M*)
'Effects of hadronic potentials on elliptic flows in HIC'
- 11:20-11:50 Zhe Xu (*Beijing*)
'Elliptic and Triangular Flow and their Correlation in Ultrarelativistic High Multiplicity Proton Proton Collisions at 14 TeV'
- 11:50-12:20 Laszlo Csernai (*Bergen*)
'Kelvin-Helmholtz instability in heavy ions'

afternoon break

Chair: Che-Ming Ko

- 17:00-17:25 Jaakko Manninen (*Frankfurt*)
'Di-electron production at RHIC and LHC'
- 17:25-17:50 Stephan Endres (*Frankfurt*)
'Dilepton production in relativistic heavy-ion collisions with the UrQMD model'
- 17:50-18:15 Hendrik van Hees (*Frankfurt*)
'Off-equilibrium photon production'
- 18:15-18:25 *break*
- 18:25-18:50 Evgeni Kolomeitsev (*Bela Bystrica*)
'Production of doubly strange particles in statistical model and Xi baryons at HADES'
- 18:50-19:15 Larissa Bravina (*Oslo*)
'Description of pp collisions at LHC'
- 19:15-19:40 Evgeny Zabrodin (*Oslo*)
'HYDJET++: interplay between soft and hard physics'

30 June, Saturday

Chair: Igor Mishustin

- 9:00-9:30 Dany Davesne (*Lyon*)
'Boltzmann simulation within the test particle method and semi-analytical approach via second-order moments method'
- 9:30-10:00 Pasi Huovinen (*Frankfurt*)
'Dynamical freeze-out and its consequences '
- 10:00-10:25 Risto Paatelainen (*Jyväskylä*)
'EKRT saturation model updates and LHC PbPb results'
- 10:25-10:50 Heikki Mäntysaari (*Jyväskylä*)
'Azimuthal angle correlations in forward dihadron production in pA collisions'
- 10:50-11:10 *coffee break*
- 11:10-11:35 Peter Van (*Budapest*)
'Flow velocities in dissipative relativistic hydrodynamics
– Eckart and/or Landau-Lifshitz – do we have a choice?'
- 11:35-12:00 George Moschelli (*Frankfurt*)
'Flow Probes of Early Time Correlations'
- 12:00-12:25 Dajuan Wang (*Bergen*)
'Higher moments characteristics from QGP flow'
- 12:25 Closing