



Scientific Program

Symposium on ‘Non-equilibrium Dynamics’

31 August - 3 September 2011,
Heraklion, Crete, Greece



31 August, Wednesday

9:00-9:10	Opening	Chair: Charles Gale
9:10-9:40	Owe Phillipsen (<i>Uni. Frankfurt</i>) 'Towards quarkonium in medium from first principles'	
9:50-10:20	Jorgen Randrup (<i>LBL Berkeley</i>) 'Dynamics of the instabilities associated with the expected 1st-order phase transition'	
10:30-10:50	<i>coffee break</i>	
10:50-11:20	Wolfgang Cassing (<i>Uni. Giessen</i>) 'The hadronization problem in transport approaches'	
11:30-12:00	Che-Ming Ko (<i>Texas A&M</i>) 'Quarkonia production in HIC'	
	<i>afternoon break</i>	
16:30-17:00	<i>coffee</i>	Chair: Che-Ming Ko
17:00-17:30	Charles Gale (<i>Uni. McGill, Montreal</i>) 'Real photons from hot and dense ideal and viscous media'	
17:40-18:10	Arnaud Rios Huguet (<i>Uni. Surrey</i>) 'Time-dependent Green's function methods applied to nuclear reactions: correlated 1D evolution'	
18:20-18:50	Marcus Bluhm (<i>SUBATECH Nantes</i>) 'Transport coefficients of strongly interacting matter'	
19:00	<i>dinner</i>	

1 September, Thursday

Chair: Burkhard Kämpfer

- 9:00-9:30 Ulrich Heinz (*Uni. Ohio*)
'The QGP viscosity from RHIC to LHC'
9:40-10:10 Takeshi Kodama (*Uni. Rio de Janeiro*)
'Stochastic variational method and viscous hydrodynamics'
10:20-10:40 *coffee break*
10:40-11:10 Klaus Werner (*SUBATECH Nantes*)
'Hydrodynamical evolution in heavy-ion collisions and pp scatterings at the LHC'
11:20-11:50 Thomas Gasenzer (Heidelberg)
'Superfluid Turbulence and Nonthermal Fixed Points in Bose Gases'

afternoon break

- 16:30-17:00 *coffee* Chair: Jorgen Randrup
17:00-17:30 Rudy Marty (*SUBATECH Nantes*)
'QGP phase transition within local equilibrium molecular dynamics based
on the NJL model'
17:40-18:10 Pasi Huovinen (*Uni. Frankfurt*)
'Lattice QCD based equation of state at finite baryon density'
18:20-18:50 Harri Niemi (*Uni. Frankfurt*)
'Derivation of transient relativistic fluid dynamics from the Boltzmann equation'
19:00 *dinner*

2 September, Friday

Chair: Ulrich Heinz

- 9:00-9:30 Rene Bellwied (*Uni. Houston*)
'Color-neutral bound states above the QCD transition from equilibrium and non-equilibrium processes'
- 9:40-10:10 Marlene Nahrgang (*SUBATECH Nantes*)
'Sigma- and pion-excitations in non-equilibrium chiral fluid dynamics'
- 10:20-10:40 *coffee break*
- 10:40-11:10 Sebastian Mendizabal (*Uni. Frankfurt*)
'Nonequilibrium dynamics in the early universe'
- 11:20-11:50 Krzysztof Redlich (*Uni. Wroclaw & CERN*)
'Probability distribution of conserved charges and the QCD phase transition'
- afternoon break*
- 16:30-17:00 *coffee*
- Chair: Krzysztof Redlich
- 17:00-17:30 Burkhard Kämpfer (*FZ Dresden - Rossendorf*)
'Transient Hydro'
- 17:40-18:10 Bjoern Schenke (*Brookhaven*)
'Higher flow harmonics in viscous hydrodynamics with fluctuating initial conditions'
- 18:20-18:50 Thomas Klahn (*Uni. Wroclaw*)
'Heavy-ion collisions and constraints from neutron star phenomenology'
- 19:00 *Conference dinner*

3 September, Saturday

- 9:00-12:00 free discussions

- 19:00 *dinner*