



School of Collective Dynamics in High-Energy Collisions

Lawrence Berkeley National Laboratory

Bldg 54, Perseverance Hall

June 7-11, 2010

Scientific Program

Monday, June 7th

Chair: H.G. Ritter

- 9:00 J. Symons Welcome Remarks
9:10 R. Stock The Quest for the Partonic EOS
9:40 T. Schaefer Strongly Coupled System: Cold Fermi Gas I
10:40 *Coffee break*
11:00 K. Dusling Introduction to Hydrodynamics I
12:00 *Lunch break*

Chair: V. Koch

- 14:00 A. Poskanzer Effect of Eccentricity Fluctuations on Elliptic Flow
15:00 K. Schweda News from ALICE at LHC
15:40 *Coffee break*
16:00 M. Nahrgang Chiral Fluid Dynamics at the Phase Transition
16:40 F. D'Eramo Transverse Momentum Broadening and the Jet Quenching Parameter, Redux
17:20 All Discussions
18:00 *Reception (BBQ at Cafeteria)*

Tuesday, June 8th

Chair: E. Sichtermann

- 9:00 K. Dusling Introduction to Hydrodynamics II
10:00 T. Schaefer Strongly Coupled System: Cold Fermi Gas II
11:00 *Coffee break*
11:20 C. Young Quarkonium During the Hydrodynamical Phase
12:00 *Lunch break*

Chair: F. Yuan

- 14:00 D. Teaney Heavy Quarks in Hydrodynamics
15:00 U. Heinz Hydrodynamic Modeling
16:00 *Coffee break*
16:20 S. Schuchmann HBT Systematics from AGS to LHC
17:00 C. Andrei Evidence on Collective Expansion in p-p Collisions At Relativistic Energies
17:40 S. Seddiki Study of the CBM Detector Capabilities for Open Charm Elliptic Flow Measurements
18:20 *Adjourn*

Wednesday, June 9th

Chair: P. Jacobs

- 9:00 M. Stephanov Basics on QCD Phase Transition
10:00 G. Roland Fluctuations
11:00 *Coffee break*
11:20 C. Athanasiou Using Ratios of Fluctuation Observables in the Search for the QCD Critical Point
12:00 *Lunch break*

Chair: X. Dong

- 14:00 T. Hirano Hydrodynamic Modeling: A Hybrid Approach
15:00 G. Odyniec RHIC BES Program
15:40 *Coffee break*
16:00 J.F. Liao The Fluidity Olympics
16:40 C. Herold Non-equilibrium Field Theory and Its Applications
17:20 V. Roy Transverse Momentum Spectra and Elliptic Flow in Ideal Hydrodynamics and Geometric Scaling
18:00 *Adjourn*

Thursday, June 10th

Chair: X.N. Wang

- 9:00 S. Gupta Lattice Gauge Theory on QCD Phase Transition
10:00 J. Randrup Nuclear Liquid Gas Transition
11:00 *Coffee break*
11:00 B. Betz Jet Propagation and Mach Cone Formation in (3+1) Dimensional Ideal Hydrodynamics
11:40 S. Banik The Kaon to Pion Ratio in Heavy Ion Collisions
12:20 *Lunch break*

Chair: J.F. Liao

- 14:00 H. Masui Systematics on Flow Measurements at RHIC
15:00 L. Phair Nuclear Liquid Gas Phase Transition
16:00 *Coffee break*
16:20 P. Gasik Hadron Production in Al+Al Collisions at 2A GeV
17:00 A. Monnai Viscous Hydrodynamics for Relativistic Systems with Multi-Components and Multiple Conserved Currents
17:40 All Discussions
18:00 *Conference Dinner (Cha Am – authentic Thai food)*

Friday, June 11th

Chair: N. Xu

- 8:30 D. Kharzeev LPV in Heavy Ion Collisions: Theory
9:20 S. Voloshin LPV in Heavy Ion Collisions: Experiment
10:10 A. Bzdak Remarks on Possible Local Parity Violation in Heavy Ion Collisions
10:50 *Coffee break*
11:20 E. Shuryak Properties of the QGP
12:10 B. Mueller QCD Phase Structure
13:00 *Adjourn*