

Scientific Program

Monday, March 11th

Session Chair: V. Koch (Berkeley, USA)

- 8:30-8:35 **“Welcome”**
 J. Randrup (Berkeley, USA)
- 8:35-8:40 **“Opening Remarks”**
 H.G. Ritter (Berkeley, USA)
- 8:40 – 9:20 **“Exploring the QCD Phase Diagram: An Overview”**
 B. Mohanty (Bhubaneswar, India)
- 9:20 – 9:50 **“Charged Hadron Nuclear Modification Factors in the Beam Energy Scan Data from STAR”**
 S. Horvat, (Yale, USA)
- 9:50 – 10:20 **“Results from the PHENIX BES Program”**
 J. Mitchell (Upton, USA)
- 10:20 – 10:40** *Coffee Break*
- 10:40 – 11:10 **“Highlights from the NA61/SHINE Experiment at the CERN SPS”**
 K. Grebieszko (Warsaw, Poland)
- 11:10 – 11:40 **“Multiplicity Fluctuations of Identified Hadrons in Central Pb+Pb Collisions at the CERN SPS”**
 A. Rustamov (Frankfurt, Germany)
- 11:40 – 12:10 **“Femtoscopy of Heavy Ion Collisions under Changing Conditions at STAR”**
 M. Lisa (Columbus, USA)
- 12:10 -14:00** *Lunch Break*
- Session Chair: D. Keane (Kent, USA)
- 14:00 – 14:30 **“Exploring Dense Matter with HADES”**
 J. Stroth (Frankfurt, Germany)
- 14:30 – 15:00 **“Di-lepton Production in Heavy Ion Collisions”**
 R. Rapp (College Station, USA)
- 15:00 – 15:30 **“Beam Energy Dependence of Dilepton Production”**
 X. Dong (Berkeley, USA)
- 15:30 – 16:00** *Coffee Break*
- 16:00 -16:30 **“Chemical Freeze-out in Heavy Ion Collisions”**
 F. Becattini (Florence, Italy) – Presented by J. Steinheimer (Berkeley, USA)
- 16:30 – 17:00 **“Effects of Inelasticity and Annihilation/Regeneration on the Hadron Yields during the Hadron/Resonance Expansion Phase in A+A Collisions”**
 R. Stock (Frankfurt, Germany)
- 18:30 – 21:00** *Welcome Reception*

Scientific Program

Tuesday, March 12th

Session Chair: E. Shuryak (Stony Brook, USA)

8:30 – 9:00 **“QCD Phase Diagram, Fluctuations and the Critical Point”**

M. Stephanov (Chicago, USA)

9:00 – 9:30 **“Hadrons and the Phase Diagram”**

S. Gupta (Mumbai, India)

9:30 – 10:00 **“Lessons Learned from the Liquid-Gas Phase Transition”**

L. Phair (Berkeley, USA)

10:00 – 10:30 *Coffee Break*

10:30 – 11:00 **“Dynamics near the Critical Point”**

J. Kapusta (Minneapolis, USA)

11:00 – 11:30 **“Spinodal Crumbling”**

J. Steinheimer (Berkeley, USA)

11:30 – 12:00 **“The QGP Equation of State by Measuring the Color Suppression Factor at RHIC and LHC Energies”**

R. Scharenberg (West Lafayette, USA)

12:00 -14:00 *Lunch Break*

Session Chair: M. Stephanov (Chicago, USA)

14:00 – 14:30 **“Charge Fluctuations at QCD Phase Transitions and the Effect of Volume Fluctuations”**

V. Skokov (Upton, USA)

14:30 – 15:00 **“Higher Moments of Net-proton Multiplicity Distributions at STAR”**

X.F. Luo (Wuhan, China)

15:00 – 15:30 **“Baryon Number Conservation and Limited Acceptance vs. Cumulants of Net-proton Distribution”**

A. Bzdak (Upton, USA)

15:30 – 16:00 *Coffee Break*

16:00 -16:30 **“Dynamic Enhancement of Fluctuation Signals at the QCD Phase Transition”**

M. Nahrgang (Nantes, France)

16:30 – 17:00 **“Kinetics of Chiral Transition and Domain Growth for Quark Matter”**

H. Mishra (Ahmedabad, India)

17:00 – 17:30 **“Viewing the Chemical Evolution of the QGP through Charge Correlations”**

S. Pratt (East Lansing, USA)

19:00 – 21:00 **IAC Meeting – Carneros Room**

Scientific Program

Wednesday, March 13th

Session Chair: F. Becattini (Florence, Italy)

- 8:30 – 9:00 **“Neutron Stars and the EOS”**
M. Prakash (Athens, USA)
- 9:00 – 9:30 **“Astrophysics Constraints on the EOS”**
D. Blaschke (Dubna, Russia)
- 9:30 – 10:00 **“QCD at Finite Baryon Density”**
S. Katz (Budapest, Hungary)
- 10:00 – 10:30** *Coffee Break*
- 10:30 – 11:00 **“The Chiral Magnetic Effect”**
D. Kharzeev (Upton, USA)
- 11:00 – 11:30 **“The Chiral Magnetic Wave”**
J.F. Liao (Bloomington, USA)
- 11:30 – 12:00 **“Search for Local Parity Violation at RHIC and LHC”**
S. Voloshin (Detroit, USA)
- 12:00 -14:00** *Lunch Break*

Wednesday Afternoon Parallel Sessions

Parallel Session (1) – Atlas Peak Room

Session Chair: D. Cebra (Davis, USA)

- 14:00 – 14:20 **“Energy and Centrality Dependence of Chemical Freeze-out Parameters from Model Calculations”**
L. Kumar (Kent, USA)
- 14:20 – 14:40 **“Energy Dependence of Chemical Fluctuations in p+p Interactions from NA61/SHINE”**
M. Mackowiak-Pawlowska (Frankfurt, Germany)
- 14:40 – 15:00 **“Energy Dependence of Phi-meson Production and Elliptic Flow in Au+Au Collisions at STAR”**
Md. Nasim (Bhubaneswar, India)
- 15:00 – 15:20 **“Moments of the Net-charge Multiplicity Distribution in Au+Au Collisions Measured by the PHENIX Experiment at RHIC”**
P. Garg (Varanasi, India)
- 15:20 – 16:00** *Coffee Break*
- 16:00 – 16:20 **“Heavy Quark Dynamics in the UrQMD Hybrid Model”**
T. Lang (Frankfurt, Germany)
- 16:20 – 16:40 **“Studies of Dilepton Production with the UrQMD Model: Transport Calculations vs. Coarse-grained Dynamics”**
S. Endres (Frankfurt, Germany)
- 16:40 – 17:00 **“The Chiral Phase Transition from Lattice QCD with Physical Pion Masses and Domain Wall Fermions”**
C. Schroeder (Livermore, USA)

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Parallel Session (2) – Cabernet and Zinfandel Room

Session Chair: N. Xu (Berkeley, USA)

14:00 – 14:20 **“Charged Particle Anisotropic Flow $v_{2,3,4}$ in Pb-Pb Collisions at Midrapidity Measured by ALICE”**
R. Singh (Jammu, India)

14:20 – 14:40 **“Hadronic Resonance Production with ALICE Experiment at LHC”**
S. Singha (Kolkata, India) – Presented by B. Mohanty (Bhubaneswar, India)

14:40 – 15:00 **“Identified Hadron Spectra in p+p Interactions at 20, 31, 40, 80 and 158 GeV/c from NA61/SHINE at the CERN SPS”**
S. Pulawski (Katowice, Poland)

15:00 – 15:20 **“Critical Point and Deconfinement from Dyson-Schwinger Equations”**
J. Luecker (Giessen, Germany)

15:20 – 16:00 *Coffee Break*

16:00 – 16:20 **“Domain Formation and Density Fluctuations in a Fluid Dynamical Model for the QCD Phase Transition”**
C. Herold (Frankfurt, Germany)

16:20 – 16:40 **“QCD Equation of State From a Chiral Hadronic Model Including Quark Degrees of Freedom”**
P. Rau (Frankfurt, Germany)

16:40 – 17:00 **“Flavor Hierarchy in the Confinement Transition of QCD”**
M. Bluhm (Torino, Italy)

17:00 – 17:20 **“Heavy Flavor Production at RHIC Energies”**
Y. Zhang (Hefei, China)

18:30 – 20:00 *Conference Dinner – Merlot and Syrah Room*

Scientific Program

Thursday, March 14th

Session Chair: F. Karsch (Bielefeld/Upton, Germany/USA)

- 8:30 – 9:00 **“Effective Gluon Potential and Yang-Mills Thermodynamics”**
C. Sasaki (Frankfurt, Germany)
- 9:00 – 9:30 **“Chiral Anomaly and Local Polarization Effect from Quantum Kinetic Approach”**
Q. Wang (Hefei, China)
- 9:30 – 10:00 **“The QCD Trace Anomaly with 2+1 Flavors of Highly Improved Staggered Quarks”**
A. Bazavov (Upton, USA)

10:00 – 10:30 *Coffee Break*

- 10:30 – 11:00 **“ v_N at RHIC”**
P. Sorensen (Upton, USA)
- 11:00 – 11:30 **“Collision Energy Evolution of Elliptic and Triangular Flow in a Hybrid Model”**
J. Auvinen (Frankfurt, Germany)
- 11:30 – 12:00 **“Heavy Flavor Mesons in Strong Magnetic Fields”**
P. Filip (Bratislava, Slovakia)

12:00 -14:00 *Lunch Break*

Session Chair: H.Z. Huang (Los Angeles, USA)

- 14:00 – 14:30 **“Beam Energy Dependence of Strange Hadron Production at RHIC”**
F. Zhao (Los Angeles, USA)
- 14:30 – 15:00 **“Quantifying the Sensitivity of Experimental Data to Variations in the QGP Equation of State”**
R. Soltz (Livermore, USA)
- 15:00 – 15:30 **“From p+p to Pb+Pb Collisions: Wounded Nucleon versus Statistical Models”**
M. Gazdzicki (Frankfurt, Germany)

15:30 – 16:00 *Coffee Break*

- 16:00 -16:45 **“Freeze-out Conditions in Heavy-ion Collisions: a Lattice QCD Based Approach”**
S. Mukherjee (Upton, USA)
- 16:45 – 17:15 **“Direct Photon and π^0 Spectra in p+p and Pb+Pb Collisions at the LHC”**
D. Roehrich (Bergen, Norway)

Scientific Program

Friday, March 15th

Session Chair: M. Gazdzicki (Frankfurt, Germany)

8:30 – 9:00 **“Event Anisotropy in A+A Collisions at LHC”**
R. Snellings (Amsterdam, Netherlands)

9:00 – 9:30 **“RHIC BES-II”**
G. Odyniec (Berkeley, USA)

9:30 – 10:00 **“RHIC Low Energy Acceleration”**
C. Montag (Upton, USA)

10:00 – 10:30 *Coffee Break*

10:30 – 11:00 **“The CBM Experiment at FAIR”**
P. Senger (GSI, Germany)

11:00 – 11:30 **“The MPD Experiment at NICA”**
S. Sorin (Dubna, Russia) – Presented by D. Blaschke (Dubna, Russia)

11:30 – 12:10 **“The Last Word on CPOD2013”**
F. Karsch (Bielefeld/Upton, Germany/USA)

Adjourn

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CPOD2013 Time Table

	Monday (March 11)	Tuesday (March 12)	Wednesday (March 13)		Thursday (March 14)	Friday (March 15)
8:30 – 10:30	Session I Chair: <i>V. Koch</i> Welcome Address Overview STAR charged R_{AA} PHENIX BES	Session III Chair: <i>E. Shuryak</i> QCD phase diagram QCD at finite density Liquid-gas transition	Session V Chair: <i>F. Becattini</i> Neutron STAR EOS Astrophysics QCD at finite density		Session VI Chair: <i>F. Karsch</i> Gluon potential Chiral anomaly QCD trace anomaly	Session VIII Chair: <i>M. Gazdzicki</i> v_2 at LHC RHIC BES-II RHIC C-AD
10:00 – 10:30	Coffee Break	Coffee Break	Coffee Break		Coffee Break	Coffee Break
10:30 – 12:30	NA61 NA49 STAR HBT	QCD critical point Spinodal QGP EOS	CME CMW Search for LPV		v_n at RHIC v_2 and v_3 vs. $\sqrt{s_{NN}}$ Heavy flavor meson	CBM at FAIR MPD at NICA The Last Word
12:30 – 14:00	Lunch Break	Lunch Break	Lunch Break		Lunch Break	<i>End of Conference</i>
14:00 – 15:30	Session II Chair: <i>D. Keane</i> HADES Di-lepton: th. Di-lepton: exp.	Session IV Chair: <i>M. Stephanov</i> Volume fluctuation Higher moments Cumulants of Net-proton	Parallel (1) Chair: D. Cebra	Parallel (2) Chair: N. Xu	Session VII Chair: <i>H.Z. Huang</i> Strange hadrons QGP EOS Wounded nucleon vs. statistical	Adjourn
15:30 - 16:00	Coffee Break	Coffee Break			Coffee Break	
16:00 - 17:30	Chemical freeze-out Post hadronization eff.	Dynamic effect at CP Chiral transition Charge correlations			LQCD freeze-out Direct photons at LHC	
18:30 - 20:00	Welcome Reception	IAC meeting	Conference Dinner			