

# Fluctuations, Correlations and RHIC Low Energy Runs

Hamilton Seminar Room, Chemistry, Bldg. 555  
October 3-5, 2011

## Monday, October 3

**Chair: S. Mukherjee**  
08:30-08:45 Registration  
08:45-09:00 N. Samios Welcome  
09:00-09:45 N. Xu Study QCD Phase Structure in STAR Experiment  
09:45-10:30 J. Mitchell PHENIX Overview

~ ~ *Coffee* ~ ~

11:00-11:30 M. Stephanov Non-Gaussian Fluctuations at the QCD Critical Point  
11:30-12:00 M. Asakawa Cumulants of Conserved Charges and QCD Phase Structure

~ ~ *Lunch* ~ ~

**Chair: R. Pisarski**  
14:00-14:30 M. Kitazawa Revealing Baryon Number Fluctuations in Heavy Ion Collisions  
14:30-15:00 V. Skokov Non-perturbative Dynamics and Charge Fluctuations in Effective Chiral Models

~ ~ *Coffee* ~ ~

15:30-16:00 J. Liao Three Quarks for Muster Mark--- Lessons Learned from Susceptibilities  
16:00-16:30 M. Nahrgang Fluctuations of Conserved Charges within Dynamic Models of Heavy-ion Collisions

## Tuesday, October 4

**Chair: K. Rajagopal**  
09:00-09:30 K-F. Liu Lattice Calculation of QCD Critical Point with the Canonical Ensemble  
09:30-10:00 S. Ejiri Study of QCD Phase Transition at Finite Density by a Histogram Method  
10:00-10:30 L. Chen Probing the QCD Phase Transition Using Cumulants of Net-proton Multiplicity at RHIC

~ ~ *Coffee* ~ ~

11:00-11:30 C. Ratti Recent Results on Correlations and Fluctuations from the Wuppertal-Budapest Lattice QCD Collaboration  
11:30-12:00 P. Hegde Fluctuations and Correlations: Comparing Lattice QCD to the Hadron Resonance Gas Model

~ ~ *Lunch* ~ ~

## **Tuesday, October, 4 (afternoon)**

		<b>Chair: D. Kharzeev</b>
13:45-14:15	S. Gupta	TBA
14:15-14:45	C. Schmidt	Higher Moments of Hadronic Fluctuations and QCD Critical Behavior from Lattice Simulations
14:45-15:15	K. Redlich	Probing QCD Phase Boundary with Charge Fluctuations and their Probability Distributions

~ ~ *Coffee* ~ ~

15:45-16:45	<b>Chair: N. Xu:</b>	Discussion Session: Theory, Experiments and Lattice QCD
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~ ~ *Workshop Dinner, 18:00-19:30, Berkner Hall* ~ ~

## **Wednesday, October 5**

		<b>Chair: M. Stephanov</b>
09:00-09:30	Y. Gu	Flow at Low Energies (PHENIX)
09:30-10:00	P. Sorensen	Flow at Low Energies (STAR)
10:00-10:30	N. R. Sahoo	Higher Moments of Net-charge Fluctuations (STAR)

~ ~ *Coffee* ~ ~

11:00-11:30	M. Lisa	The Energy Dependence of the Freeze-out Source Shape Measured by Azimuthally-sensitive HBT in STAR
11:30-12:00	A. Sen	J/Psi Results at 39 & 62 GeV (PHENIX)

~ ~ *Lunch* ~ ~

13:45-14:30	P. Seyboth	Status of Fluctuation Studies in NA49 at CERN SPS Energies
14:30-15:00	T. Tarnowsky	Current Results for Dynamical K/pi, p/pi, and K/p Fluctuations from the STAR Experiment
15:00-16:00	V. Koch	Summary & More

~ ~ *Coffee; Workshop Ends* ~ ~