

Saturation, the Color Glass Condensate and Glasma: What have we learned from RHIC?

May 10-12 2010, Physics Department, Large Seminar Room

Monday, May 10, 2010

Registration and Coffee -- 8:30 - 9:00

Session I: Introduction and Overview: 9:00 - 12:30 **(Chair: Peter Paul)**

Welcome and Perspective Talk (Nick Samios) (10 min)

Introduction to the Physics of Saturation (Yuri Kovchegov) (30 min)

The Glasma and Color Glass Condensate (Francois Gelis) (30 min)

The Color Glass Condensate at Strong Coupling (Edmond Iancu) (30 min)

Coffee Break

HERA Results and DGLAP Evolution (Stefano Forte) (30 min)

Review of HERA Data (Henri Kowalski) (30 min)

Summary of RBRC Workshop on Event by Event P and CP Violation (Harmen Warringa) (20 min)

Lunch – 12:30 - 2:00

Session II: Global Event Structure at RHIC: 2:00 - 5:30 **(Chair: Dmitri Kharzeev)**

Extended Longitudinal Scaling: Direct Evidence of Saturation (Wit Busza) (30 min)

Multiplicity, Multiplicity Fluctuations and Negative Binomial Distributions (Tomoaki Nakamura for PHENIX) (30 min)

Eccentricity Fluctuations (Paul Sorenson for STAR) (30 min)

Coffee Break

Limiting Fragmentation (Anna Stasto) (20 min)

Initial Conditions and Global Event Properties (Adrian Dumitru) (20 min)

Transport Processes in the Turbulent Glasma (Berndt Mueller) (20 min)

Hydrodynamics for Fluctuating Initial Conditions (Frederique Grassi) (20 min)

Tuesday, May 11, 2010

Session III: Long Range Rapidity Correlations and the Ridge: 8:30 - 12:00

(Chair: Eugene Levin)

The Ridge in STAR (Lanny Ray for STAR) (30 min)

Long Range Correlations in Phenix (John Chen for PHENIX) (30 min)

Long Range Correlations in Phobos (Wei Li for PHOBOS) (30 min)

Collision Geometry Fluctuations and Triangular Flow (Burak Alver for PHOBOS) (15 min)

Coffee Break

Three Particle Correlations in STAR (Pawan Netrakanti for STAR) (15 min)

The Ridge and Colored Flux (Eduard Shuryak) (20 min)

Long Range Correlations and Hydrodynamic Expansion (Sean Gavin) (20 min)

Lunch – 12:00 - 1:00

Session IV: Long Range Rapidity Correlations I : Forward Backward Correlations: 1:00 - 2:00

(Chair: Nu Xu)

STAR Results on Forward Backward Correlations (Mike Skoby for STAR) (20 min)

Theoretical Treatment of Forward Backward Correlations and Negative Binomial Distributions (Tuomas Lappi) (20 min)

Long Range Correlations, Event Simulations and Parton Percolation (Carlos Pajares) (20 min)

Session V: Single Particle Distributions in the Forward Region: 2:00 - 3:45

Dependence of Single Particle Distributions on Rapidity and Centrality (Ramiro Debbe from BRAHMS Summarizing Results from all RHIC experiments) (45 min)

Single Particle Distributions in Perturbative QCD and Shadowing (Mark Strikman) (30 min)

Single Particle Distributions, Leading Twist and Beyond (Javier Albacete) (30 min)

Coffee Break

Session VI: The Forward Region Two Particle Correlations: 4:00 - 5:45

(Chair: Raju Venugopalan)

Two Particle Correlations at Forward Rapidity in STAR (Ermes Braidot for STAR) (30 min)

Two Particle Correlations with Forward Rapidity Particle in PHENIX(Beau Meredith for PHENIX) (30 min)

Two Particle Forward Correlations: Leading Twist, Next to Leading Twist and Saturation (Cyrille Marquet) (30 min)

Two Particle Correlations: Saturation and Issues with Universality (Bowen Xiao) (15 min)

Dinner for Registered Participants, Center South Room -- 6:30 – 8:30

Wednesday, May 12, 2010

Session VII: J/Psi and Charm at RHIC: 8:30 - 12:00 **(Chair: David Morrison)**

The J/Psi in pA and AA Collisions at CERN-SPS and FNAL (Boris Kopeliovich) (30 min)

The J/Psi and Charm at RHIC (Alexandre Lebedev for PHENIX) (45 min)

The J/Psi and Charm at RHIC (Chris Perkins for STAR) (45 min)

Coffee Break

Understanding J/Psi Production in pp, dA and AA Collisions (Jian Wei Qiu) (30 min)

Charmonium and Open Charm Production and Saturation (Kirill Tuchin) (15 min)

Leptons and Dileptons (Jason Kamin for Phenix) (20 min)

Lunch – 12:00 - 1:00

Session VIII Future Directions: 1:00 - 4:00 **(Chair: James Dunlop)**

Future Directions in CGC Studies at RHIC (Les Bland for STAR) (30 min)

Decadal Upgrade in Phenix (Jamie Nagle for PHENIX) (20 min)

Forward Calorimetry for Phenix (Rich Seto for Phenix) (20 min)

Small x Physics with ALICE (Tapan Nayak for ALICE) (20 min)

Small x Physics with CMS (Magdalena Malek for CMS) (20 min)

Small x Physics with ATLAS (Brian Cole for ATLAS) (20 min)

The EIC, Saturation and the CGC (Thomas Ullrich) (20min)

Coffee Break

Can the Near Perfect Fluid Shed Light on Its Pre-Equilibrium Glasma? (Miklos Gyulassy)(30 min)

Session IX Summary Talk: 4:30 - 5:30 **(Chair: Larry McLerran)**

The Status of Saturation, the CGC and Glasma (Jean Paul Blaizot) (1 hr)