

RBRC Workshop

Saturation: Recent Developments, New Ideas and Measurements

April 26-28, 2017

Physics Department, Large Seminar Room

WEDNESDAY, APRIL 26, 2017

08:30-08:50 REGISTRATION

- 08:50-09:00 Welcome..... *Workshop Organizers*
09:00-09:30 D. Kharzeev *Deep inelastic scattering as a probe of entanglement*
09:30-10:00 E. Iancu..... *Particle production in proton-nucleus collisions beyond leading order*

10:00-10:30 COFFEE BREAK (included in attendance)

- 10:30-11:00 M. Lublinsky..... *From light-cone wave function to NLO JIMWLK*
11:00-11:30 G. Beuf..... *Full NLO corrections for DIS structure functions in the dipole factorization formalism*
11:30-12:00 B. Schenke *Subnucleonic fluctuations, diffraction, and small- x evolution*

12:00-14:00 LUNCH BREAK (on your own, self-pay)

- 14:00-14:30 M. Sievert..... *Quark helicity evolution at small- x*
14:30-15:00 Y. Kovchegov *Small- x asymptotics of the quark helicity distribution*

15:00-15:30 COFFEE BREAK (included in attendance)

- 15:30-16:00 A. Ogawa *Polarized $p+A$ physics at forward rapidity at STAR*
16:00-16:30 T. Peitzmann..... *Opportunities for forward photon measurements in ALICE at the LHC*
16:30-17:00 D. Tapia-Takaki... *Studying gluon saturation and nuclear effects using forward heavy-ion probes and UPCs at LHC*
17:00-17:30 D. Neill *Finding small- x like evolution in QCD final state dynamics: the problem of non-global logarithms*

18:00-20:00 NO HOST DINNER (optional, off-site, self-pay)

THURSDAY, APRIL 27, 2017

- 09:00-09:30 R. Venugopalan... *Ridge-like correlations in small systems: status and problems*
09:30-10:00 A. Mueller *Transverse momentum broadening and Sudakov effects*

10:00-10:30 COFFEE BREAK (included in attendance)

- 10:30-11:00 I. Balitsky..... *Higher-twist corrections to gluon TMD factorization*
11:00-11:30 S. Caron-Huot..... *Linear and nonlinear small- x evolution in perturbation theory*
11:30-12:00 C. Royon..... *Forward jets at HERA and Mueller-Navelet and jet gap jet events at Tevatron and LHC*

12:00-14:00 LUNCH BREAK (on your own, self-pay)

14:00-14:30 K. Fukushima *Particle production in CGC*

14:30-15:00 J. Jia *Flow in small systems*

15:00-15:30 COFFEE BREAK (included in attendance)

15:30-16:00 A. Dumitru..... *Fluctuations of the gluon distribution at small-x: correlation of multiplicity and transverse momentum fluctuations*

16:00-16:30 G. Chirilli..... *Rapidity factorization of high-energy scattering processes at NLO*

16:30-17:00 S. Schlichting *Event-by-event pre-equilibrium dynamics – from gluon saturation toward the onset of hydrodynamics*

17:00-17:30 A. Stasto *Low-x physics and prompt neutrino production*

18:00-20:00 NO HOST DINNER (optional, off-site, self-pay)

FRIDAY, APRIL 28, 2017

09:00-09:30 P. Newman *Low-x physics and saturation studies for the Large Hadron Electron Collider*

09:30-10:00 A. Kovner *Exploring correlations in the CGC wave function: odd azimuthal anisotropy*

10:00-10:30 COFFEE BREAK (included in attendance)

10:30-11:00 K. Dusling *Collectivity from the initial state: four-particle correlations in proton-nucleus collisions*

11:00-11:30 R. Paatelainen *Toward higher-order accuracy in LCPT*

11:30-12:00 A. Rezaeian *Elliptic flow from color-dipole orientation in pp and pA collisions*

12:00-14:00 LUNCH BREAK (on your own, self-pay)

14:00-15:00 Nuclear Theory/RIKEN Seminar --- S. Caron-Huot

15:00 END OF WORKSHOP
