
Program
Ninth Workshop on Non-Perturbative QCD
l'Institut Astrophysique de Paris - Paris , France
4-8 June 2007

Program

June 4, Monday (morning)

8:20a.m. Registration -
9:20 Welcoming Remarks by Chung-I Tan

QCD, LGT and Hadron Structure

9:30 a.m. **Session Chair: K. Orginos**
9:30 A. DiGiacomo: “*Confinement and Dual Superconductivity of QCD Vacuum*”
10:00 M. D’Elia: “*Deconfinement in QCD at Finite Temperature and Density*”

10:30 **Refreshments**

11:00 P. Haegler: “*Hadron Structure from Generalized Parton Distributions in Full Lattice QCD*”
11:30 Scorzato: “*Results from Twisted Mass QCD*”
12:00 K. Orginos: “*Meson Scattering Lengths in Lattice QCD*”

12:30 p.m. **Lunch**

June 4, Monday (afternoon)
QCD, New Developments in String Theory, and AdS/CFT

2:00 p.m. **Session Chair: A. Volovich**
2:00 A. Volovich: “*Progress in Twistors Theory and Calculation of Gluon Amplitudes*”
2:30 Y-H He: “*Probing the Geometry of $N = 1$ Vacua*”
3:00 J. Wosiek: “*From Planar Quantum Mechanics to Planar Field Theory*”

3:30 **Refreshments**

4:00 M. Spradlin: “*Multiloop Gluon Amplitudes and AdS/CFT*”
4:30 B. Eden: “*Non-perturbative anomalous dimension for twist operators in $N=4$ SYM*”

June 5, Tuesday (morning)
QCD, String, and High Energy Collisions

9:00 a.m.	Session Chair: R. Brower
9:00	D. Vaman: “ <i>Bubbling AdS Geometries</i> ”
9:30	A. Brandhuber: “ <i>Refining MHV Diagrams</i> ”
10:00	G. Veneziano: “ <i>Planar Equivalence: an update</i> ”
10:30	Refreshments
11:00	C. Thorn: “ <i>The $Q\bar{Q}$ Flux on the Lightcone Worldsheet</i> ”
11:30	R. Brower: “ <i>AdS Graviton Exchange at High Energies</i> ”
12:00p.m.	C-I Tan: “ <i>AdS Pomeron Exchange at High Energies</i> ”
12:30 p.m.	Lunch

June 5, Tuesday (afternoon)
Hadron Physics at RHIC and LHC

2:00 p.m.	Session Chair: Chair: B. Müller
2:00	J-R Cudell: “ <i>Does the Hard Pomeron Contribute to Soft Scattering?</i> ”
2:30	J. Hirn: “ <i>Bottom-up Approach to Holographic QCD</i> ”
3:00	V. Sanz: “ <i>Holographic Technicolor</i> ”
3:30	D. Ryckbosch: “ <i>Nucleon Spin Structure: Recent Results from HERMES</i> ”
4:00	session continues next morning.

June 6, Wednesday (morning)
Hadron Physics at RHIC and LHC (cont. from Tue. p.m.)

9:00 a.m.	Session Chair: B. Müller
9:00	P. de Forcrand: “ <i>The Phase Diagram of QCD from Lattice Simulations</i> ”
9:00	B. Müller : “ <i>Why is the Quark-Gluon Plasma a ‘Perfect’ Liquid?</i> ”
9:30	M. Heller: “ <i>Viscous Hydrodynamics Relaxation Time from AdS/CFT</i> ”
10:30	Refreshments
11:00	M. Tannenbaum : “ <i>Hard-Scattering and QCD Fundamentals at RHIC</i> ”
11:30	Y. van Haarlem : “ <i>Nuclear p_t-Broadening at HERMES</i> ”
12:00	F. Hautmann: “ <i>Parton Distribution Functions in an s-Channel Approach</i> ”
12:30 pm	Lunch

Wednesday (afternoon)
Non-Perturbative QFT

2:00 p.m.	Session Chair: H. Fried
2:00	S.-H. Li: “ <i>Arranging Dirac Structures for Hadron-Quark Vertices in Bethe-Salpter Framework under Covariant Instantaneous Ansatz</i> ”
2:30	B. Peyaud: “ <i>Experimental Studies of K_{e4} and $K_{3\pi}$ Decays from the NA48/2 Experiment</i> ”
3:00	G. Giacomelli: “ <i>Bose-Einstein Correlations in $e + e -$ Collisions at LEP</i> ”
3:30	Refreshments
4:00	C. Bender: “ <i>Faster than Hermitian Quantum Mechanics</i> ”
4:30	V. Gogokhia: “ <i>The Mass Gap and Solution of the Gluon Confinement Problem in QCD</i> ”
5:00	T. Grandou: “ <i>Twin Paradox and Causality</i> ”

June 6, Wednesday Evening
7:30 **Banquet at Restaurant Tao Tao**

June 7, Thursday (morning)

Small-x and Saturation

9:00 a.m.	Session Chair: E. Iancu
9:00	Y. Hatta : “ <i>Recent Developments in Saturation Physics</i> ”
9:30	I. Balitsky : “ <i>Small-x Evolution of Color Dipoles in the Next-to-Leading Order</i> ”
10:00	D. D’Enterria : “ <i>Small-x QCD: from HERA and RHIC to the LHC</i> ”
10:30	Refreshments
11:00	S.Munier: “ <i>From High-Energy QCD to Statistical Physics</i> ”
11:30	E. Iancu : “ <i>The Hadron in Black & White</i> ”
12:30 pm	Lunch

June 7, Thursday (afternoon)

Physics at LHC

2:00 p.m.	Session Chair: I. Sarcevic
2:00	V. Khoze: “ <i>Forward Proton Tagging at the LHC as a Tool to Study QCD and New Physics at the LHC</i> ”
2:30	C. Merino: “ <i>Open Charm Production in pp and Heavy Ion Collisions in QCD</i> ”
3:00	P. Artoisenet: “ <i>Heavy Quarkonium Production in Hadron Collisions</i> ”
3:30	Refreshments
4:00	G. Pancheri: “ <i>QCD Predictions for Total Cross-sections and the Froissart Bound</i> ”
4:30	E. Ferreiro: “ <i>Multiplicities, Fixed p_T Suppression, Elliptic Flow and J/ψ Suppression at the LHC</i> ”
5:00	I. Sarcevic: “ <i>Black Hole Production at the LHC</i> ”

June 8, Friday (morning)

Astrophysics and Cosmology

9:00 a.m.	Session Chair: J. Martin
9:00	P. Brax : “ <i>Early and late accelerating universe in supergravity</i> ”
9:30	P. Peter : “ <i>Bouncing Alternatives to Inflation Cosmology</i> ”
10:00	J. Moffat: “ <i>Modified Gravity and Its Consequences for the Solar System, Astrophysics and Cosmology</i> ”
10:30	Refreshments

Analytic, Non-Perturbative QFT

11:00 a.m.	Session Chair: H. M. Fried
11:00	A. Ilderton: “ <i>Gribov Copies and Confinement</i> ”
11:30	A. Nesterenko: “ <i>Adler Function Within the Analytic Approach to QCD</i> ”
12:00	D, Dudal: “ <i>Gauge Invariant Nonlocal Mass Operator in YM Theories</i> ”
12:30 pm	Lunch

June 8, Friday (afternoon)

Analytic, Non-Perturbative QFT (continued from a.m.)

2:00 p.m.	Session Chair: H. M. Fried
2:00	A. Jevicki: “ <i>AdS/CFT Correspondence</i> ”
2:30	P. Jameson: “ <i>Collinear Divergences from Very Soft Gauge Bosons</i> ”
3:00	Q-B Xie: “ <i>Universality of Quark Combination Mechanism</i> ”
3:30	H. M. Fried: “ <i>Analytic, Non-Perturbative, Almost-Exact QED: the 2-Point Functions</i> ”
4:00	“End of Workshop”