

Hot Quarks 2006

Monday, May 15th: High- p_t Phenomena

Morning session: Jets and the Medium

08:30 Welcome

08:45 **James Dunlop** (Brookhaven National Laboratory):
What's left to learn?

09:20 **Andre Peschier** (Giessen):
Rethinking the QCD collisional energy loss

09:40 **Thorsten Renk** (Jyvaskyla):
Signatures of Mach shocks at RHIC

10:00 *coffee break*

10:30 **Camelia Mironov** (Los Alamos National Laboratory):
Virtual Photon Tagged Jets

10:50 **Tatsuya Chujo** (University of Tsukuba):
Search for the onset of the baryon anomaly at RHIC-PHENIX

11:10 **Masahiro Konno** (University of Tsukuba):
Identified Charged Hadron Production at high p_t

11:30 **Matthew Lamont** (Yale University):
Investigation of the high p_t strange baryon anomalies at RHIC

11:50 *discussion forum*

13:00 *lunch*

Afternoon session: Jet Correlations

17:00 **Henner Buesching** (Brookhaven National Laboratory):
Neutral Meson Production at high p_t with the PHENIX experiment at RHIC

17:20 **David Winter** (Columbia University):
high- p_t π^0 production with respect to the reaction plane using PHENIX

17:40 **Leon Gaillard** (University of Birmingham):
Identified two-hadron correlations in STAR

18:00 *coffee break*

18:30 **Joern Putschke** (Lawrence Berkeley National Laboratory):
Near-side $\Delta\eta$ correlations of high- p_t hadrons from STAR

18:50 **Federica Benedosso** (Utrecht University):
Jet-like correlations studied in STAR

19:10 *discussion forum*

20:00 *dinner*

Tuesday, May 16th: Correlations, Flow and Strangeness

Morning Session: HBT and Collective Flow

- 08:30 **Mike Lisa** (Ohio State University):
Femtoscopy in Heavy-Ion Collisions
- 09:05 **Hanna Gos** (Warsaw Institute of Technology):
Proton-proton correlations in Au+Au collisions measured by STAR at RHIC
- 09:25 **Zbigniew Chajecki** (Ohio State University):
Femtoscopy in $p+p$ vs. heavy-ions in STAR
- 09:45 **Francesco Noferini** (Bologna):
Two particle correlations: from RHIC to LHC
- 10:05 *coffee break*
- 10:30 **Raymond Snellings** (NIKHEF):
Anisotropic flow at 5.5 TeV
- 10:50 **Hannah Petersen** (Frankfurt):
Elliptic and directed flow in heavy-ion collisions at GSI-FAIR and CERN-SPS energies
- 11:10 **Chiho Nonaka** (Nagoya University):
Space-time evolution of bulk QCD matter at RHIC
- 11:30 *discussion forum*
- 12:45 *lunch*
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Afternoon: Strangeness

- 17:00 **Jeff Speltz** (IReS - Strasbourg):
What can we learn from the energy dependence of strangeness production at RHIC?
- 17:20 **Ingrid Kraus** (TU Darmstadt):
Do small systems equilibrate chemically?
- 17:40 **Boris Tomasik** (Univerzita Mateja Bela):
The K/π horn and the lifetime of the fireball
- 18:00 *coffee break*
- 18:30 **Boris Hippolyte** (IReS - Strasbourg):
Strange prospects for LHC energies
- 18:50 **Christina Markert** (Kent State University):
Strange resonance production in heavy-ion collisions at RHIC
- 19:10 **Mark Heinz** (Yale University):
Next-to-leading order models for strange hadron production in $p+p$
- 19:30 *discussion forum*
- 20:00 *dinner*

Wednesday, May 17th: The Yin and Yang of Heavy-Ion Physics

Morning session: Future Experiments, Detectors, and Measurements

- 08:30 **Andrea Dainese** (Padova & INFN):
ALICE perspectives for the study of charm and beauty energy loss
- 08:50 **Fabien Guerin**(Clermont-Ferrand):
Measurement of Upsilon production with the ALICE muon spectrometer
- 09:10 **Zaida Conesa del Valle** (SUBATECH):
Detection of W bosons in the ALICE muon spectrometer
- 09:30 *coffee break*
- 10:00 **David d'Enterria** (CERN):
Small-x and QGP physics at CMS-LHC
- 10:20 **Marcello Lunardon** (Padova):
ALICE performance for the measurement of beauty via the electron decay channel
- 10:40 **Alexandre Shabetai** (IREs - Strasbourg):
The HFT - a stand-alone heavy flavor tracker at STAR
- 11:00 **Jason Kamin** (SUNY-SB):
A hadron blind detector for the PHENIX experiment
- 11:20 *discussion forum*
- 12:20 *lunch*
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Afternoon session: Theory

- 17:00 **Denes Molnar** (Purdue University):
Heavy quarks at RHIC from parton transport theory
- 17:20 **Zhe Xu** (Frankfurt):
The role of the gluonic gg-ggg interactions in early thermalization
- 17:40 **Konrad Tywoniuk** (Oslo):
Gluon shadowing and the nuclear modification factor
- 18:00 *coffee break*
- 18:30 **Prashant Jaikumar** (Argonne National Laboratory):
Hot Quark Stars: Features and Findings
- 18:50 **Marcus Bluhm** (FZ Rossendorf):
QCD Equation of State in a Quasi-Particle Perspective
- 19:10 **Claudia Ratti** (ECT* Trento):
Phases of QCD
- 19:30 *discussion forum*
- 20:00 *dinner*

Thursday, May 18th: Electromagnetic Probes

Morning session:

- 08:30 **Joerg Ruppert** (Duke University):
What does the ρ meson do? Lessons from NA60's di-muon measurement
- 09:05 **Stefan Bathe** (UC Riverside):
Direct photon production at RHIC
- 09:25 **Martijn Russcher** (Utrecht University):
Direct photons with the STAR detector
- 09:45 **Sanja Damjanovic** (Heidelberg):
First measurement of the ρ spectral function in high-energy nuclear collisions
- 10:05 *coffee break*
- 10:30 **Alberica Toia** (SUNY-SB):
Measurement of the low mass di-electron continuum with the PHENIX experiment
- 10:50 **Torsten Dahms** (SUNY-SB):
Measurement of photons via conversion pairs with PHENIX in Au+Au at RHIC
- 11:10 **Michele Floris** (Cagliari):
Phi production in NA60
- 11:30 **Thomas Eberl** (TU Muenchen):
Probing the in-medium properties of hadrons with di-electrons
- 11:50 **Kevin Haglin** (St. Cloud State):
Unturned Stones for Electromagnetic Probes of Hot and Dense Matter
- 12:10 *discussion forum*
- 13:00 *lunch*
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Afternoon: Excursion

Friday, May 19th:

Morning Session: Bulk Properties and Fluctuations

- 08:30 **Jamie Nagle** (Colorado):
The Letter “s”
- 09:05 **Rachid Nouicer** (Brookhaven National Laboratory):
Similarity of Initial States in A+A and p+p collisions in the constituent quark framework
- 09:25 **Giorgio Torrieri** (McGill University):
Constraining the freeze-out in heavy-ion collisions with yields and fluctuations
- 09:45 **Ewelina Kornas** (Polish Academy of Sciences):
Energy dependence of proton and antiproton production from NA49
- 10:05 *coffee break*
- 10:30 **Helen Caines** (Yale):
Is Soft Physics Merely Entropy Driven?
- 10:50 **Marcus Bleicher** (Frankfurt):
Signals of deconfinement at SPS energies
- 11:10 **Chiara Zampolli** (Bologna & INFN):
Event by Event Fluctuation Studies for the ALICE experiment
- 11:30 *discussion forum*
- 12:30 *lunch*
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Afternoon: Jet Production

- 17:00 **Mercedes Noriega** (CERN):
Jet Physics in Alice
- 17:20 **Jana Bielcikova** (Yale):
What can we learn from high- p_t azimuthal correlations of neutral strange baryons and mesons at RHIC energy?
- 17:40 **Nicholas Borghini** (CERN):
Multiplicity Distributions for Jet-Parton Showers in the Medium
- 18:00 *coffee break*
- 18:30 **Gergely Barnafoldi** (MTA KFKI RMKI):
Jet Tomography in the Forward Direction at RHIC
- 18:50 **Constantin Loizides** (MIT):
High- p_t suppression and surface effects in nucleus-nucleus collisions
- 19:10 **Alberto Accardi** (Iowa State):
Can we distinguish energy loss from hadron absorption?
- 19:30 *discussion forum*
- 20:00 *dinner*

Saturday, May 20th: Heavy-Quark Physics

Morning session: Heavy-Quark I

- 09:30 **Haibin Zhang** (Brookhaven National Laboratory):
Open Charm Measurements
- 10:05 **DongJo Kim** (Yonsei University):
Open heavy flavor production from single muons with the PHENIX experiment
- 10:25 *coffee break*
- 11:00 **Raphael Granier de Cassagnac** (Ecole Polytechnique):
 J/ψ production in PHENIX
- 11:20 **Frank Laue** (Brookhaven National Laboratory):
 v_2 and R_{AA} of non-photonic single electrons: which restrictions do the current measurements pose on the production of charm, bottom and Drell-Yan?
- 11:40 **Vincent Guiho** (Nantes):
Thermalization of heavy quarks and consequences on charmonia production
- 12:00 *discussion forum*
- 13:00 *lunch*
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Afternoon: Charm thermalization, Flow and Energy-loss

- 17:00 **Jaroslav Bielic** (Yale):
Suppression of high p_T non-photonic electrons in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV at RHIC
- 17:20 **Paul Sorensen** (Lawrence Berkeley National Laboratory):
Suppression of non-photonic electrons from enhancement of charm baryons in heavy-ion collisions
- 17:40 *coffee break*
- 18:10 **Shingo Sakai** (University of Tsukuba):
The azimuthal anisotropy of electrons from heavy flavor decays in $\sqrt{s_{NN}} = 200$ GeV Au-Au collisions at PHENIX
- 18:30 **Chen Zhong** (BNL/SINAP):
Muon spectra from charm semileptonic decay in Au+Au collisions at STAR
- 18:50 *discussion forum*
- 20:00 *dinner and Klaus Kinder-Geiger Award Ceremony*