

**Agenda of the INT workshop
on Non-Equilibrium Quark-Gluon Plasma**

September 25 – 29, 2006

Monday, September 25

Introduction, experimental facts & hydrodynamics

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|---|-------------|--------------------|---|
| 1 | 9:00-9:45 | Ulrich Heinz | <i>Fast thermalization and almost perfect liquidity of the QGP at RHIC - fact or fiction?</i> |
| 2 | 9:45-10:30 | Roy Lacey | <i>Experimental constraints for the thermodynamic potential and transport coefficients of the plasma produced in heavy ion collisions at RHIC</i> |
| | 10:30-11:00 | coffee break | |
| 3 | 11:00-11:45 | Nu Xu | <i>Search for partonic equation of state in high-energy nuclear collisions</i> |
| 4 | 11:45-12:30 | | |
| | 12:30-14:30 | lunch break | |
| 5 | 14:30-15:15 | Paul Romatschke | <i>Viscous hydrodynamics and RHIC</i> |
| 6 | 15:15-16:00 | Denes Molnar | <i>Dissipation and heavy-ion collisions</i> |
| | 16:00-16:30 | coffee break | |
| 7 | 16:30-17:15 | Karolis Tamosiunas | <i>Stability of the freeze-out process in quark-gluon plasma evolution</i> |

Tuesday, September 26

Unstable quark-gluon plasma

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|---|-------------|-----------------------|---|
| 1 | 9:00-9:45 | Stanisław Mrówczyński | <i>Scenario of instabilities driven equilibration of the quark-gluon plasma</i> |
| 2 | 9:45-10:30 | Michael Strickland | <i>Simulating the dynamics of non-equilibrium glue</i> |
| | 10:30-11:00 | coffee break | |
| 3 | 11:00-11:45 | Dietrich Bodeker | <i>Instabilities in strongly anisotropic QCD plasmas</i> |
| 4 | 11:45-12:30 | Guy Moore | <i>Dependence of plasma instabilities on the level of anisotropy</i> |
| | 12:30-14:30 | lunch break | |
| 5 | 14:30-15:15 | Adrian Dumitru | <i>Vlasov-Yang-Mills plasmas beyond HL: field evaporation into particles</i> |
| 6 | 15:15-16:00 | Yasushi Nara | <i>3D Wong-Yang-Mills simulations of instabilities</i> |
| | 16:00-16:30 | coffee break | |
| 7 | 16:30-17:15 | Bjoern Schenke | <i>QGP instabilities under the influence of collisions</i> |
| | 17:15-18:00 | Discussion | |

Wednesday, September 27*Unstable quark-gluon plasma cont.*

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|---|-------------|--|---|
| 1 | 9:00-9:45 | Toni Rebhan | <i>Weibel instabilities in anisotropically expanding quark-gluon plasma</i> |
| 2 | 9:45-10:30 | Peter Arnold | <i>More on plasma instabilities</i> |
| | 10:30-11:00 | coffee break | |
| 3 | 11:00-11:45 | Tuomas Lappi | <i>From color glass to glasma and plasma</i> |
| 4 | 11:45-12:30 | Raju Venugopalan | <i>Plasma instabilities and multiparticle production to NLO in heavy ion collisions</i> |
| | 12:30-14:30 | lunch break | |
| 5 | 14:30-15:15 | Cristina Manuel | <i>Chromo-hydrodynamic approach to the unstable quark-gluon plasma</i> |
| 6 | 15:15-16:00 | Steffen Bass | <i>Anomalous viscosity of an expanding quark-gluon plasma</i> |
| | 16:00-16:30 | coffee break | |
| 7 | 16:30-17:15 | Eugene Levin | <i>CGC and early thermalization</i> |
| | 17:15-18:00 | Discussion | |
| | 19:00 | Workshop dinner at Ivar's Salmon House | |

Thursday, September 28*AdS/CFT duality and sQGP*

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|---|-------------|----------------|---|
| 1 | 9:00-9:45 | Andreas Karch | <i>Strongly coupled gauge theories and AdS/CFT duality</i> |
| 2 | 9:45-10:30 | Larry Yaffe | <i>Energy loss of heavy quarks moving through strongly coupled supersymmetric plasma</i> |
| | 10:30-11:00 | coffee break | |
| 3 | 11:00-11:45 | Romuald Janik | <i>AdS/CFT dual of boost-invariant expanding plasma</i> |
| 4 | 11:45-12:30 | Pavel Kovtun | <i>Electromagnetic response of supersymmetric Yang-Mills plasma</i> |
| | 12:30-14:30 | lunch break | |
| 5 | 14:30-15:15 | Ismail Zahed | <i>Aspects of sQGP</i> |
| 6 | 15:15-16:00 | Gert Aarts | <i>Expansion versus interaction: boost-invariant dynamics from the 2PI effective action</i> |
| | 16:00-16:30 | coffee break | |
| 7 | 16:30-17:15 | Yuri Kovchegov | <i>Non-perturbative nature of thermalization in heavy-ion collisions?</i> |
| | 17:15-18:00 | Discussion | |

Friday, September 29

Varia

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|----------------|--------------------|-------------------------|---|
| 1 | 9:00-9:45 | Bin Zhang | <i>Thermalization within a kinetic approach</i> |
| 2 | 9:45-10:30 | Leonid Frankfurt | <i>New QCD regime of energy losses for leading partons in pA and AA collisions and RHIC dA correlation data</i> |
| | 10:30-11:00 | | coffee break |
| 3 | 11:00-11:45 | Dam Son | <i>Workshop's summary</i> |
| The end | | | |

Last modification: September 19, 2006