

# HISS: Dense Matter in HIC and Astrophysics, Dubna, 28.08.-08.09.2012

Preliminary Program (September 2, 2012)

Time	TUE 28.08.	WED 29.08.	THU 30.08.	FRI 31.08.	SAT 01.09.
09:00	<b>Registration</b>				
09:45	<b>Opening</b>				
10:00 - 11:00	Satz I	Cleymans I	Randrup II	Voskresensky III	Huovinen III
11:00 - 11:30	coffee break				
11:30 - 12:30	Randrup I	Voskresensky I	Voskresensky II	Cleymans III	Randrup III
12:30 - 13:30	Huovinen I	Grigorian II	Satz II	Grigorian III	Toneev I
13:30 - 15:30	lunch break				
15:30 - 16:30	Grigorian I	Huovinen II	Cleymans II	Ilgenfritz I	Röpke I
16:30 - 17:00	coffee break				
17:00 - 18:00	<b>Informal</b>	PS I	PS II	PS III	PS IV
18:00 - 19:00	<b>Get Together</b>	SSTP I	SSTP II	SSTP III	PS IV

Time	MONDAY 03.09.	TUESDAY 04.09.	WEDNESDAY 05.09.	THURSDAY 06.09.	FRIDAY 07.09.
10:00 - 11:00	Röpke II	Schmitt I	Blume II	Blume III	Ilgenfritz II
11:00 - 11:30	coffee break				
11:30 - 12:30	Toneev II	Tserruya I	Tserruya II	van Hees III	Schmitt III
12:30 - 13:30	van Hees I	Blume I	van Hees II	Tserruya III	Bugaev III
13:30 - 15:30	lunch break				
15:30 - 16:30	<b>Excursion to NICA site</b>	Bugaev I	Bugaev II	Schmitt II	<b>Closing &amp; Farewell Barbecue</b>
16:30 - 17:00	<b>(15:15 at entrance gate)</b>	coffee break			
17:00 - 18:00	<b>Roundtable</b>	PS V	PS VI	PS VII	
18:00 - 19:00	<b>Discussion: NICA</b>	SSTP IV	SSTP V	SSTP VI	

## Lectures (55'+5'):

Christoph Blume (Frankfurt, Germany):	Beam energy scan programs in HIC
Kyrill Bugaev (Kiev, Ukraine):	Statistical models for the QCD phase diagram
Jean Cleymans (Cape Town, RSA):	Statistical model of hadron production
Hovik Grigorian (Yerevan, Armenia):	Compact stars theory & observations
Pasi Huovinen (Frankfurt, Germany):	Hydrodynamics of heavy-ion collisions
Michael Ilgenfritz (Dubna, Russia):	Lattice QCD for extreme matter
Jorgen Randrup (LBNL, USA):	Spinodal decomposition in first order transitions
Helmut Satz (Bielefeld, Germany):	Quark confinement and universal hadrosynthesis
Andreas Schmitt (Vienna, Austria):	Holographic approach to dense matter
Gerd Röpke (Rostock, Germany):	Cluster formation in nuclear matter
Vyacheslav Toneev (Dubna, Russia):	Strong magnetic fields in HIC
Itzhak Tserruya (Israel):	Dileptons in HIC - experiment
Hendrik van Hees (Frankfurt, Germany):	Dileptons in HIC - theory
Dmitry Voskresensky (Moscow, Russia):	Kinetics of phase transitions

## Problem Solving Seminars (60'):

PS I: Huovinen // Voskresensky
PS II: Satz // Grigorian
PS III: Randrup // Cleymans
PS IV: Röpke // Ilgenfritz
PS V: Blume // Toneev
PS VI: Tserruya // van Hees
PS VII: Schmitt //Bugaev

## Soft Skill Training Programme (15'+5' / 25'+5'):

SSTP I: Bastian, Jäh, Ivanytskiy
SSTP II: Stetina, Lyuboshitz, Parganlija
SSTP III: Benić, Liebing, Wunderlich
SSTP IV: TBA
SSTP V: TBA
SSTP VI: TBA
SSTP VII: TBA

**RT: NICA**, Presentation of the NICA Facility and Roundtable Discussion (Kekelidze, Meshkov, Sorin, Trubnikov, Tserruya)

**Excursion:** **Sergiev Posad** is planned on Sunday, 2.9., Departure from Hotel "Dubna" at 9:30 (sharp)  
**Moscow** can be visited individually, e.g., on Monday, 27.8., and/or Saturday, 8.9.

## SSTP = Soft Skill Training Programme (15'+5'):

### SSTP I:

Niels-Uwe Bastian (Rostock):	Cluster virial expansion and quasiparticle concept for nuclear matter
Christian Jäh (Freiberg):	Ill-posed problems
Alexey Ivanytskyi (Kiev):	Critical exponents of a quark-gluon bag model with surface tension

### SSTP II:

Denis Parganlija (Vienna):	Quarkonia in vacuum
Valery Lyuboshitz (Dubna):	Pair correlations of neutral $K$ , $D$ , $B$ and $B_s$ mesons with close momenta generated in inclusive multiparticle processes
Stephan Stetina (Vienna):	From a complex scalar field to the two-fluid picture of superfluidity

### SSTP III:

Sanjin Benić (Zagreb):	Thermodynamic instability in chiral quark models
Simon Liebing (Freiberg):	Electronic coupling at organic-metal interfaces
Falk Wunderlich (Dresden):	Iterative hydrodynamics

### SSTP IV:

Iurii Karpenko (Frankfurt):	A hydro + cascade model for heavy ion collisions
Rafał Łastowiecki (Wrocław):	Quark matter in neutron stars in the light of the mass measurement for PSR J1614-2230
David Alvarez Castillo (Cracow/Mexico)	Symmetry energy effects in neutron stars

### SSTP V:

Alessandro Brillante (Frankfurt):	Linear oscillations for compact stars with realistic EoS
Roman Yaresko (Dresden):	Phenomenological AdS/QCD: thermodynamics and viscosities
Ecaterina Bodnariuc :	Wilson loops, lattice QCD, NSPT

### SSTP VI:

Ravinder Kumar :	Cosmological Singularities
Uwe Heinzmann (Frankfurt):	Problem Solving
Stanislaw Smolyansky (Saratov):	Short-distance electromagnetic structure of the physical vacuum