

*Lattice and Functional Techniques for Exploration of Phase Structure and Transport Properties in Quantum Chromodynamics*

**Monday, 10 July**

**BLTP, auditorium on 2d floor**

<b>9:30 Registration (BLTP, 2d floor, Registration office)</b>		
<b>Chairman: B. J. Schaefer</b>		
<b>10:00 – 10:40</b>	A. Nakamura	QCD phase structure and heavy ion collisions (I)
<b>10:40 – 11:20</b>	H. Iida	Meson screening masses at high temperatures and densities
<b>11:20 – 11:40</b>	<b>Coffee break</b>	
<b>Chairman: E.-M. Ilgenfritz</b>		
<b>11:40 – 12:20</b>	P. Gunkel	Quarks and hadrons at finite chemical potential
<b>12:20 – 13:00</b>	V. Braguta	Confinement-deconf. trans. in dense SU(2) QCD (I)
<b>13:00 – 14:30</b>	<b>Lunch</b>	
<b>Chairman: V. Braguta</b>		
<b>14:30 – 15:10</b>	B.J. Schaefer	Finite-volume effects on the QCD phase structure
<b>15:10 – 15:50</b>	A. Rothkopf	In-medium heavy quarkonium spectral properties ...
<b>15:50 – 16:10</b>	<b>Coffee break</b>	
<b>16:10 – 16:50</b>	talk of L. Holicki and free discussion (Ilgenfritz convener) "Quark localization and spectral correlations in lattice QCD" (a project proposal)	
<b>17:00 – ...</b>	<b>Welcome Party</b>	

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**Tuesday, 11 July**

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<b>Chairman: S. Smolyansky</b>		
<b>10:00 – 10:40</b>	M. d'Elia	Lattice QCD simulations with external backgrounds (I)
<b>10:40 – 11:20</b>	E.-M. Ilgenfritz	QCD thermodynamics with $N_f=2$ and $2+1+1$ : status
<b>11:20 – 11:40</b>	<b>Coffee break</b>	
<b>Chairman: M. D'Elia</b>		
<b>11:40 – 12:20</b>	M.-P. Lombardo	Topology in hot QCD with dynamical charm and axion physics
<b>12:20 – 13:00</b>	R. Rogalyov	Glueon propagators at finite temp. and density
<b>13:00 – 14:30</b>	<b>Lunch</b>	
<b>Chairman: M. P. Lombardo</b>		
<b>14:30 – 15:10</b>	V. Boryakov	QCD at finite baryonic density us. imag. chem. Potential
<b>15:10 – 15:50</b>	P. Buividovich	Non-equilibrium responses of chiral plasmas
<b>15:50 – 16:10</b>	<b>Coffee break</b>	
<b>16:10 – 16:50</b>	free discussion Nakamura/Boryakov (conveners) "Status and possibilities for lattice QCD with three colors at finite baryonic density"	
<b>16:50 – 17:30</b>	O. Ivanyitski (Kiev, presenting V. Sagun's talk) "Beyond the Van der Waals EoS of hadronic matter"	

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**Wednesday, 12 July**

**BLTP, auditorium on 2d floor**

<b>Chairman: H. Iida</b>		
<b>10:00 – 10:40</b>	P. Buividovich	Quantum effects in real-time evolution of gauge theories
<b>10:40 – 11:20</b>	A. Kotov	Temperature dependence of bulk and shear viscosities
<b>11:20 – 11:40</b>	<b>Coffee break</b>	
<b>Chairman: P. Buividovich</b>		
<b>11:40 – 12:20</b>	K. Bugaev	Phase transitions in finite systems: from signals ... (I)
<b>12:20 – 13:00</b>	J. Pawłowski	On the phase structure and dynamics of QCD (I)
<b>13:00 – 14:30</b>	<b>Lunch</b>	
<b>Chairman: K. Bugaev</b>		
<b>14:30 – 15:10</b>	V. Braguta	Confinement-deconfinement transition in dense SU(2) QCD (II)
<b>15:10 – 15:50</b>	M. d'Elia	Lattice QCD simulations with external backgrounds (II)
<b>15:50 – 16:10</b>	<b>Coffee break</b>	
<b>16:10 – 16:50</b>	S. Nedelko	Properties of a statistical ensemble of almost everywhere homogeneous Abelian (anti)self-dual gluon fields
<b>16:50 – 17:30</b>	free discussion Lombardo/Ilggenfritz (conveners) "Future of thermal lattice QCD in Dubna"	
<b>19:00</b>	<b>Conference Dinner</b>	

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**Thursday, 13 July**

**BLTP, auditorium on 2d floor**

<b>Chairman: V. Bornyakov</b>		
<b>10:00 – 10:40</b>	L. von Smekal	QCD-like theories at finite density (I)
<b>10:40 – 11:20</b>	K. Bugaev	Phase transitions in finite systems: from signals ..(II)
<b>11:20 – 11:40</b>	<b>Coffee break</b>	
<b>Chairman: L. von Smekal</b>		
<b>11:40 – 12:20</b>	A. Rothkopf	In-medium Landau gauge gluon spectral functions
<b>12:20 – 13:00</b>	A. Nakamura	QCD phase structure and heavy ion collisions (II)
<b>13:00 – 14:30</b>	<b>Lunch</b>	
<b>Chairman: G. Zinovjev</b>		
<b>14:30 – 15:10</b>	O. Ivanytskyi	Geometr. clusterization and phase trans. in SU(2) gluodynamics
<b>15:10 – 15:50</b>	free discussion Bugaev/Zinovjev (conveners) "Modeling heavy ion collisions with different time scales"	
<b>15:50 – 16:10</b>	<b>Coffee break</b>	
<b>16:10 – 16:50</b>	free discussion Braguta/von Smekal (conveners) "What can we learn from simulations of QCD-like theories (which have no sign problem)?"	
<b>17:00 – 18:00</b>	<b>Excursion to NICA</b>	

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**Friday, 14 July**

**BLTP, auditorium on 2d floor**

<b>Chairman: A. Nakamura</b>		
<b>10:00 – 10:40</b>	J. Pawłowski	On the phase structure and dynamics of QCD (II)
<b>10:40 – 11:20</b>	S. Smolyansky	Initial conditions to non-perturbative kinetic ...
<b>11:20 – 11:40</b>	<b>Coffee break</b>	
<b>Chairman: J. Pawłowski</b>		
<b>11:40 – 12:20</b>	L. von Smekal	QCD-like theories at finite density (II)
<b>12:20 – 13:00</b>	M.-P. Lombardo	Lattice QCD for Beyond the Standard Model physics
<b>13:00 – 14:30</b>	<b>Lunch</b>	
<b>14:30 –</b>	<b>Discussions/Projects</b>	