



**The program of the international workshop
«Monte Carlo methods in computer simulations of complex systems»**

School of Biomedicine, FEFU, office 707
13-20 October 2014

Time	Speaker	Title
13 October 2014		
Arrival and Welcome Party (at 19:00, office 810)		
14 October 2014		
10:00-10:30		Opening
10:30-11:00	G. Schierholz, DESY, Hamburg	«Introduction to lattice gauge theories»
11:00-11:30	<i>Coffee-break</i>	
11:30-12:30	G. Schierholz, DESY, Hamburg	«Flavor physics from the lattice»
12:30-13:00	Discussion	
13:00-15:00	<i>Lunch</i>	
15:00-16:00	T. Suzuki, Kanazawa University, Kanazawa	«A new scheme for color confinement and violation of the non-Abelian Bianchi identities»
16:00-16:30	<i>Coffee-break</i>	
16:30-17:30	K. Ishiguro, Kochi University, Kochi	«Numerical analyses of violation of the non-Abelian Bianchi identities on lattice»
17:30-18:00	Discussion	
19:00	<i>Dinner</i>	
15 October 2014		
10:00-11:00	V.V. Braguta, IHEP, Protvino/ FEFU, Vladivostok	Numerical study of graphene
11:00-11:30	<i>Coffee-break</i>	
11:30-12:30	E-M. Ilgenfritz, JINR, Dubna	«Thermal crossover, propagators and equation of state from $N_f=2$ and $N_f=2+1+1$ flavors dealt with in the twisted mass approach»
12:30-13:00	Discussion	
13:00-15:00	<i>Lunch</i>	
15:00-16:00	V.G. Borneyakov, FEFU, Vladivostok/ / IHEP, Protvino / ITEP, Moscow	«Thermal monopoles in lattice QCD»
16:00-16:30	<i>Coffee-break</i>	
16:30-17:30	O.V. Pavlovsky, MSU, Moscow/ITEP, Mocsow	«Lattice path integrals for relativistic and non-relativistic many-body quantum systems»
17:30-18:00	Discussion	

19:00	<i>Dinner</i>	
	16 October 2014	
10:00-10:30	A. Yu. Kotov, ITEP, Moscow	« Lattice QCD with nonzero chiral chemical potential »
10:30-11:00	A.A. Nikolaev, FEFU, Vladivostok / ITEP, Moscow	«Monte-Carlo study of the phase transition in the AA-stacked bilayer graphene »
11:00-11:30	<i>Coffee-break</i>	
11:30-12:30	A. Nakamura, Hiroshima University, Hiroshima	«Numerical Study of Extreme World -- Lattice gauge field at finite temperature and density »
12:30-13:00	Discussion	
13:00-15:00	<i>Lunch</i>	
15:00-15:30	V. Braguta, IHEP, Protvino / ITEP, Moscow / FEFU, Vladivostok «Study of axial magnetic effect»	
15:30-16:00	S.N. Valgushev, ITEP, Moscow Numerical simulation of graphene in an external magnetic field	
16:00-16:30	<i>Coffee-break</i>	
16:30-17:00	D.L. Boyda, FEFU, Vladivostok / ITEP, Moscow	Numerical simulation of graphene conductivity
17:00-18:00	Discussion	
19:00	<i>Dinner</i>	
	17 October 2014	
10:00-13:00	Excursion	
13:00-15:00	<i>Lunch</i>	
15:00-18:00	Excursion	
19:00	<i>Conference Dinner</i>	
	18 October 2014	
10:00-11:00	V.I. Zakharov, ITEP, Moscow / FEFU, Vladivostok	«Chiral liquids»
11:00-11:30	<i>Coffee-break</i>	
11:30-12:00	K.V. Nefedev, FEFU, Vladivostok	Simulation of magnetic properties of the nanostructured films by the parallel Monte Carlo method.
12:00-13:00	E.V. Lushevskaya, ITEP, Moscow	«Meson masses in strong Abelian magnetic field»
13:00-13:30	Discussion	
13:30-15:00	<i>Lunch</i>	
15:00-16:00	R.N. Rogalev, IHEP, Protvino	«Gauge boson propagator in the three-dimensional lattice SU(2) theory»
16:00-16:30	<i>Coffee-break</i>	
16:30-17:00	S. A. Yurev JINR, Dubna / FEFU, Vladivostok, « Three-nucleon calculations within the Bethe-Salpeter approach with separable kernel »	
17:00-17:30	A.V. Bekzhanov JINR, Dubna / FEFU, Vladivostok, «Elastic electron-deuteron	

	scattering at high momentum transfer»	
17:30-18:30	Discussion	
19:00	<i>Dinner</i>	
	19 October 2014	
10:00-11:00	A.V. Molochkov, FEFU, Vladivostok/ITEP, Moscow	«Surface operators study within the lattice QCD»
11:00-11:30	<i>Coffee-break</i>	
11:30-12:00	V.A. Goy, FEFU, Vladivostok / ITEP, Moscow,	Surface operators in the SU(2)- gluodynamics
12:00-13:00	M.N. Chernodub, University of Tours, Tours/FEFU, Vladivostok	«Transport laws in QCD»
13:00-15:00	<i>Lunch</i>	
15:00-16:30	Discussion of the collaborative projects on the subject 'Modelling of the protein folding'	
16:30-17:00	<i>Coffee-break</i>	
17:00-18:30	Discussion of the collaborative projects on the subject 'Development of the methods of confinement mechanism modelling'	
19:00	<i>Dinner</i>	
	20 October 2014	
	Departure	