

Franco-Russian Workshop « Stochastic Processes in Physics and Biology », August 17 – 19, 2009

	Monday, August 17	Tuesday, August 18	Wednesday, August 19
10.00 – 10.15	<i>Welcome</i>		
10.15 – 11.00	Shlosman	Schehr	Avetisov
11.00 – 11.45	Malyshev	Mallick	Vergassola
11.45 – 12.30	Cugliandolo	Blank	Krapivsky
12.30 – 13.15	Vladimirov	Tamm	Hakim
13.15 – 15.00	<i>Lunch</i>	Free Time	<i>Lunch</i>
15.00 – 15.45	Nechaev		Sinai
15.45 – 16.30	Trizac		Komech
16.30 – 17.15	Pirogov		Kleptsyna
17.15 – 17.30	<i>Coffee Break</i>		<i>Coffee Break</i>
17.30 – 18.15	Oseledets		Rosso
18.15 – 19.00	Gurevich		Leonidov
			<i>Closing</i>
20.00			<i>Conference Dinner</i>

Monday, August 17, 2009

10.00 – 10.15 Welcome

Section chairman: B.GUREVICH

10.15 – 11.00 S.SHLOSMAN. *The Ising rain stays mainly in the plain*

11.00 – 11.45 V.MALYSHEV. *Local transformation processes and one enigma of general physics*

11.45 – 12.30 L.CUGLIANDOLO. *Topological defect formation across a second order phase transition*

12.30 – 13.15 A.VLADIMIROV. *Mean-field models of queuing networks*

13.15 – 15.00 Lunch

Section chairman: V.HAKIM

15.00 – 15.45 S.NECHAEV. *Unzipping of two random heteropolymers: Ground-state energy and finite-size effects*

15.45 – 16.30 E.TRIZAC. *Coulombic elasticity of biopolymers*

16.30 – 17.15 S.PIROGOV. *Random walks in chemical kinetics and molecular motors*

17.15 – 17.30 Coffee break

Section chairman: V.MALYSHEV

17.30 – 18.15 V.OSELEDETS. *The entropy of some hidden Markov chain*

18.15 – 19.00 B.GUREVICH. *On one geometric meaning of dynamical entropy*

Tuesday, August 18, 2009

Section chairman: L.CUGLIANDOLO

10.15 – 11.00 G.SCHEHR. *From vicious walkers to random matrices: a path integral approach*

11.00 – 11.45 K.MALLICK. *Some recent results on the Asymmetric Exclusion Process*

11.45 – 12.30 M.BLANK. *Exclusion type spatially heterogeneous processes in continuum*

12.30 – 13.15 M.TAMM. *A modified TASEP model with two internal states of the particles: numerical evidence and the mean-field solution*

Free time

Wednesday, August 19, 2009

Section chairman: E.TRIZAC

10.15 – 11.00 V.AVETISOV. *Diffusion in ultrametric spaces and fluctuation-induced protein mobility*

11.00 – 11.45 M.VERGASSOLA. *Chemotaxis as a game against Nature*

11.45 – 12.30 P.KRAPIVSKY. *Molecular spiders on tracks and surfaces*

12.30 – 13.15 V.HAKIM. *The stochastic dynamics of neurons*

13.15 – 15.00 Lunch

Section chairman: S.SHLOSMAN

15.00 – 15.45 Ya.SINAI. *The decay of Fourier modes for solutions of fluid dynamics equations*

15.45 – 16.30 A.KOMECH. *On convergence to equilibrium measure in hyperbolic PDEs*

16.30 – 17.15 M.KLEPTSZYNA. *Filtering and ergodic assumptions. Discrete time case.*

17.15 – 17.30 Coffee break

Section chairman: V.OSELEDETS

17.30 – 18.15 A.ROSSO. *Extreme value statistics for log-correlated Gaussian processes.*

18.15 – 19.00 A.LEONIDOV. *Energy losses of charged particles in random media*

Closing

20.00 Conference Dinner

Venue: J-V Poncelet Laboratory, Independent University of Moscow, Bolshoy Vlasievskiy Pereulok 11, Moscow

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Guesthouse: Steklov Mathematical Institute, Gubkina str. 8, Moscow

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