



Bogolyubov Institute for Theoretical Thysics

School on Anomalous Transport, Superconductivity and Magnetism in Nanosystems

BITP, Kiev, 15 - 20 June 2015



PROGRAMME

MONDAY, 15 JUNE

	MUNDAY, 15 JUNE	
9:00 -10:00	Registration of all participants	
	MORNING SESSION	chairperson: Anatoly G. Zagorodny
10:00 - 10:30	Opening ceremony	
10:30 - 12:00	lgor Lerner Birmingham University, UK	One-dimensional flows of cold atoms
12:00 - 14:00	Lunch	
	AFTERNOON SESSION	chairperson: Andrey Varlamov
14:00 - 15:30	Leonid Glazman Yale University, USA	Nonlinear quantum liquids in one dimension - part I
15:30 - 15:50	Coffee break	
15:50 - 16:35	Leonid Glazman Yale University, USA	Nonlinear quantum liquids in one dimension - part II
17:00 - 18:30	Welcome party	
	TUESDAY, 16 JUNE	

	MORNING SESSION	chairperson: Yuri B. Gaididey
9:00 - 10:30	Sergei Flach Massey University at Auckland, New Zealand & Inst. for Basic Science at Daejeon, Korea	Nonlinear Lattice Waves: a journey from coherence to dephasing with encounters of FPU, KAM, Anderson and others
10:30 - 11:00	Coffee break	

Rosario Fazio Scuola Normale Superiore di Pisa, Italy	Circuit-QED: from quits to networks
Lunch	
AFTERNOON SESSION	chairperson: Valery Gusynin
Leonid Falkovsky ITP Landau, Russia	2D conducting structures in magnetic fields
Coffee break	
Sasha Chudnovsky Hamburg University, Germany	One-dimensional system of interacting electrons: Luttinger liquid
	Scuola Normale Superiore di Pisa, Italy Lunch AFTERNOON SESSION Leonid Falkovsky ITP Landau, Russia Coffee break Sasha Chudnovsky Hamburg University,

WEDNESDAY, 17 JUNE

	MORNING SESSION	chairperson: Vladimir E. Kravtsov
9:00 - 10:30	Boris Altshuler Columbia University, USA	Anderson localization - part I
10:30 - 11:00	Coffee break	
11:00 - 11:45	Boris Altshuler Columbia University, USA	Anderson localization - part II
11:45 - 13:15	Mikhail Feigel'man ITP Landau, Russia	Strongly disordered superconductors and quantum transition to insulating state
13:15 - 15:00	Lunch	
15:00	Excursion: guided tour and visit of Kiev Pechersk Lavra	

THURSDAY, 18 JUNE

	MORNING SESSION	chairperson: Vadim M. Loktev
9:00 - 10:30	Vladimir Lebedev ITP Landau, Russia	Turbulence and elastic turbulence
10:30 - 11:00	Coffee break	
11:00 - 12:30	Leonid Ponomarenko Lancaster University, UK	Graphene heterostructures: electronic properties and potential applications
12:30 - 14:00	Lunch	

	AFTERNOON SESSION	chairperson: Sergei G. Sharapov
14:00 - 15:30	Mikhail Portnoi University of Exter, UK	Zero-energy states in two-dimensional Weyl semimetals
15:30 - 17:00	Coffee break	
16:00 - 17:30	Alexey Kavokin University of Southampton, UK	Seebeck and Nernst-Ettingshausen effects in fluctuative superconductors
	FRIDAY, 19 JUNE	
	MORNING SESSION	chairperson: Robert Shekhter
9:00 - 10:30	Ilya Krive V.N. Karazin Kharkiv National University	Nanoelectromechanics of superconducting systems
10:30 - 11:00	Coffee break	
11:00 - 12:30	lgor Luk'yanchuk J.V. University Amiens, France	Critical superconductors with Ginzburg-Landau parameter kappa close to κ =1/ $\sqrt{2}$
12:30 - 14:00	Lunch	
	AFTERNOON SESSION	chairperson: Boris Altshuler
14:00 - 15:30	Robert Shekhter University of Gothenburg, Sweden	Nanoelectromechanics of magnetic shuttle systems
15:30 - 16:00	Coffee break	
16:00 - 17:30	Igor Zozoulenko Linkoping University, Sweden	Electronic and thermoelectric transport in organic polymeric films
	SATURDAY, 20 JUNE	
	CLOSING SESSION	
9:00 - 10:30	Valery Gusynin BITP Kiev	Graphene and quantum electrodynamics
10:30 - 12:00	Vladimir E. Kravtsov ICTP, Italy	Anderson localization adn enhancement of superconductivity by disorder
12:00 - 12:45	Boris Altshuler Columbia University, USA	Anderson localization

12:45 - 13:00 Closing remarks