Landau Days 2014
June 23 - June 25

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Program

Program Commitee:

Vladimir V. Lebedev

Eugene A. Kuznetsov

Vladimir P. Mineev

Grigory E. Volovik

Serge A. Krashakov (secretary)

Monday, 23 June

Session: In memory of Yuri Bychkov

09:00-09:20	**Eliashberg GM**
	Yuri A. Bychkov - 48 Years in the Landau Institute
09:20-10:00	**Apel W**
	Correlation functions of the anisotropic kagome Ising antiferromagnet
10:00-10:40	**Brazovskii S**
	Electronic vortices in junctions and at surfaces of CDWs

10:40-11:10 Coffee break

11:10-11:50	**Chaplik AV**
	Electrostatic screening in nanostructures
11:50-12:30	**Peschansky VG**
	Angular magnetobreakdown oscillations in layered conductors
12:30-13:10	**Burmistrov IS**
	Superconductor-metal/insulator transition in 2D electron systems with strong spin-orbit coupling

13:10-14:10 Lunch

14:10-14:50	**Timofeev VB**
	Compensation of spin splitting of dipolar exciton bose gas
14:50-15:30	**Iordanskii SV**
	The conductivity of the half filled Landau level
15:30-16:10	**Deviatov EV**
	Electron transport through the interface between a 3D metal and a two-dimensional electron gas with strong spin-orbit coupling

16:10-16:40 Coffee break

16:40-17:20	**Dickmann S**
	Excitonic representation for states in quantum Hall systems
17:20-18:00	**Byalko AV**
	Dynamics of contemporary climate

Tuesday, 24 June

Session: In memory of Nikolay Kopnin

09:00-09:20 **Volovik GE**
Kopnin in Physics

09:20-10:00 **Heikkilä T, <u>Volovik GE</u>**
Towards room-temperature flat-band superconductivity

10:00-10:40 **Pekola J**
Kopnin and nanophysics experiments

10:40-11:10 Coffee break

11:10-11:50 **Mineev VP**
Half quantum vortices

11:50-12:30 **Skvortsov MA**
Ivlev-Kopnin phase-slip instantons

12:30-13:10 **Khaymovich IM**
Vortex core states within Coulomb blockade regime

13:10-14:10 Lunch

14:10-14:50 **Volovik GE**
Kopnin force and chiral anomaly

14:50-15:30 **Eltsov VB**
Kopnin theory and Helsinki experiments on rotating cryostat

15:30-16:10 **Theiler B, <u>Geshkenbein VB</u>, Korshunov SE, Blatter G**
Squaring the triangle - Structural transitions of 2D lattice on a substrate

16:10-16:40 Coffee break

16:40-17:20 **Melnikov AS**
Nikolay Kopnin and electronic structure of vortex state in superconductors: quasiclassical approach and beyond.

Wednesday, 25 June

	Session: In memory of Sergey Manakov
09:00-09:20	**Zakharov VE**
	Sergei Manakov and integrable systems
09:20-10:00	**Zakharov VE, Zakharov DV**
	On the bounded solutions of integrable nonlinear wave equations
10:00-10:40	**Kuznetsov EA, Zubarev NM**
	Singularity formation on a fluid interface during the Kelvin-Helmholtz instability development

10:40-11:10 Coffee break

11:10-11:50	**Shabat AB**
	KdV revisited
11:50-12:30	**Grinevich PG, Santini PM, Wu D**
	The Cauchy problem for the Pavlov equation
12:30-13:10	**Bogdanov LV**
	Manakov-Santini hierarchy: geometry and reductions

13:10-14:10 Lunch

14:10-14:50	**Pogrebkov AK**
	Noncommutative Hirota difference equation
14:50-15:30	**Krichever IM**
	Spectral theory of periodic difference triangular operators
15:30-16:10	**Mikhailov AV**
	Reductions in differential and difference integrable systems

16:10-16:40 Coffee break

16:40-17:20	**Lushnikov PM**
	Nonlinear combining of laser beams through critical collapse
17:20-18:00	**Sokolov VV**
	Polynomial forms of integrable quantum second order Hamiltonians with two independent variables