

Landau Days – 2010 Program

Monday, June 21

9:00-9:30

Alexei Starobinsky

Primordial and present dark energy in $f(R)$ gravity

9:30-10:00

Efim I. Kats

Soft modes and thermal transport in guest-host crystalline structures

10:00-10:30

Grigory Volovik

Topological matter: semi-metals, topological insulators, $^3\text{He-B}$ and relativistic quantum vacuum

10:30-11:00 **Coffee break**

11:00-11:30

Alexander Kamenshchik

Higgs boson, renormalization group, and cosmology

11:30-12:00

Oleg Andreev

Searching for a mean string theory description of the pure gauge theory

12:00-12:30

Павел Григорьев

Угловая зависимость магнитосопротивления в слоистых металлах

12:30-14:00 **Lunch**

14:00-14:30

M.V. Feigel'man, L.B. Ioffe, M. Mézard

Superconductor-Insulator transition and energy localization

14:30-15:00

Yakov Fominov

Superconducting triplet spin valve

15:00-15:30

Igor Lukyanchuk

Skyrmions in ferroelectrics

15:30-16:00 **Coffee break**

16:00-16:30

M.A. Skvortsov

Correlations of the local density of states in quasi-one-dimensional wires

16:30-17:00

P.M. Ostrovsky

Anderson (de)localization of Dirac fermions in graphene with resonant scatterers

17:00-17:30

Dima Feldman

Quantum phase transition from a Luttinger liquid to a gas of cold polar molecules

Tuesday, June 22

9:00-9:30

V.P. Mineev

Paramagnetic effects on the Vortex Lattice of Strongly Type-II Superconductors

9:30-10:00

Serguei Brazovski

Charge Density Waves in real-time, real-space studies

10:00-10:30

В.Е. Захаров, А. Одесский

Уравнения Марихина, комплексные разностные системы и новая иерархия интегрируемых уравнений в 2+1 измерениях

10:30-11:00 **Coffee break**

11:00-11:30

V.A. Bendersky

Soliton-like excitations in long molecular chains

11:30-12:00

Л.А. Фальковский

Универсальная проводимость графита в инфракрасной области

12:00-12:30

Dima Geshkenbein

Geometric barriers in superconductors with complicated shape

12:30-14:00 **Lunch**

14:00-14:30

Natasha Kirova

Optics of conducting polymers

14:30-15:00

А.С. Иоселевич, Д.С. Пикулин

Прохождение горячего электрона через холодную неупорядоченную проволоку

15:00-15:30

I.S. Burmistrov

Dephasing at the integer quantum Hall transitions: Short-ranged interaction in the singlet channel

15:30-16:00 **Coffee break**

16:00-16:30

Н.Б. Копнин

Сверхпроводящий ток в графене

16:30-17:00

Aad Pruisken

Multifractality and Coulomb interaction in the quantum Hall effect

17:00-17:30

S. I. Matveenko

Vortex structures in rotating Bose-Einstein condensates

Wednesday, June 23

9:00-9:30

Yu.N. Ovchinnikov

Резонансное туннелирование в нанокластерах

9:30-10:00

A.V. Mikhailov

Canonical conservation laws and integrability conditions for difference equations

10:00-10:30

S.I. Anisimov, N.A. Inogamov, V.A. Khokhlov, Yu.V. Petrov, M.B. Agranat, S.I. Ashitkov, A.Ya. Faenov, P.S. Komarov, I.Yu. Skobelev, V.V. Zhakhovsky, V.V. Shepelev

Two-temperature warm dense matter transient state created by ultrashort optical or X-ray pulse

10:30-11:00 **Coffee break**

11:00-11:30

V.V. Lebedev

Passive scalar statistics in peripheral regions

11:30-12:00

Ildar Gabitov, Zhaxylyk Kudushev and Andrei Maimistov

Second harmonic generation in negative index metamaterials

12:00-12:30

A.O. Korotkevich and V.E. Zakharov

On the Applicability of the Kinetic Equation for Waves to the Phillips spectrum

12:30-14:00 **Lunch**

14:00-14:30

Алексей Бялко

Цепочки ламинарных пузырьков

14:30-15:00

В.П. Рубан

Внутренние волны в сжимаемой двухслойной модели атмосферы: Гамильтоново описание

15:00-15:30

P.E. Vorobyev

Plasmonic resonance

15:30-16:00 **Coffee break**

16:00-16:30

I.V. Kolokolov

Magnetic dynamo

16:30-17:00

P. Lushnikov

Collapse and stable self-trapping for Bose-Einstein condensates with $1/r^b$ type attractive interatomic interaction potential

17:00-17:30

S.S. Vergeles, В.В. Лебедев, К.С. Турицын

Влияние возбуждения коротко-волновых морщинок у мембраны на движение везикулы во внешнем стационарном течении