

# School on Anomalous Transport, Superconductivity and Magnetism in Nanosystems

15 - 20 June 2015

BITP, Kyiv, Ukraine

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, in collaboration with the Bogolyubov Institute for Theoretical Physics (BITP), Kyiv, Ukraine, is organizing a **School on Anomalous Transport, Superconductivity and Magnetism in Nanosystems** to be held in Kyiv, Ukraine, from 15 to 20 June 2015.

The goal of the School is to give a comprehensive review of the contemporary trends in Condensed Matter Physics at a meso- and nano-scale in low-dimensional and non-linear systems. The School will cover a wide spectrum of modern topics:

- Superconductivity in nanomaterials
- Interacting one-dimensional systems
- Graphene heterostructures
- Nanomechanics
- Cold atoms, BEC
- Meta-materials
- Circuit Quantum Electro-Dynamics
- Thermoelectric transport
- Nonlinear transport

## LECTURERS

Boris Altshuler (Columbia, USA)  
Sasha Chudnovsky (Hamburg, Germany)  
Rosario Fazio (SNP, Italy)  
Leonid Falkovsky (ITP Landau, Russia)  
Sergei Flach (Massey University, New Zealand)  
Yuri Galperin (Oslo, Norway)  
Leonid Glazman (Yale, USA)  
Valery Gusynin (BITP, Kiev)  
Alexey Kavokin (Southampton, UK,  
and SPIN, Italy)

Ilya Krive (Kharkov, Ukraine)  
Igor Lerner (Birmingham, UK)  
Igor Luk'yanchuk (Amiens, France)  
Leonid Ponomarenko (Lancaster, UK)  
Yuri Rubo (Mexico)  
Robert Shekhter (Gotheborg, Sweden)  
Igor Zozoulenko (Linköping, Sweden)

## PARTICIPATION

Application to the School is open to young scientists from all countries which are members of the United Nations, UNESCO or IAEA. Participants should have a background in condensed matter physics at advanced undergraduate level. As the School will be conducted in English, participants should have an adequate working knowledge of this language.

Limited funds towards travel and local expenses are available for some participants to be selected by the Organizers upon evaluation of the online application forms. Such support is available only for those who attend the entire School. There is no registration fee.

**How to apply for participation:** until 1 March 2015, candidates can access the [Online Application](http://indico.ictp.it/event/a14240/) at the activity website: <http://indico.ictp.it/event/a14240/>. Comprehensive instructions will guide you step-by-step on how to fill out and submit the application form.

ICTP SCHOOL SECRETARIAT  
c/o Ms. Nicoletta Ivanishevich (smr.2700)

E-mail: [smr2700@ictp.it](mailto:smr2700@ictp.it)

Fax: +39-040-22407383

Phone: +39-040-2240383

ICTP Home Page: <http://www.ictp.it>

Trieste, December 2014

*Bogolyubov Institute for  
Theoretical Physics*

Russian Academy of Sciences  
Landau Institute for Theoretical Physics

## Organizing Committee:

Vladimir E. Kravtsov (ICTP)  
Vladimir V. Lebedev (LIT P, RAS)  
Vadim M. Loktev (BITP, NASU)  
Andrey Varlamov (CNR-SPIN)

## Local Organizing Committee:

Sergei G. Sharapov  
Ivan O. Starodub

**DEADLINE**  
**1 March 2015**

**School Webpage:**

<http://indico.ictp.it/event/a14240/>