Invited talks

1. Alexei I. Kononov
(Saint-Petersburg State University, Russia)
Fluorescent metal nanodots as a special class of nanoobjects.

2. L.V. Yashina
(Lomonosov Moscow State University, Russia)
Chemistry of discharge and recharge of Li-air battery: operando XPS studies.

3. Boris V. Andryushechkin
(A.M. Prokhorov General Physics Institute, RAS, Moscow, Russia)
Surface chlorides on metals.

4. O.E. Tereshchenko[1,2], A.S. Jaroshevich[1], D.V. Dmitriev[1], A.I. Toropov[1], X. Li[3], Y. Lassailly[3], D. Paget[3], J. Peretti[3] *([1]Institute of Semiconductor Physics, Novosibirsk, Russia; [2]Novosibirsk State University, Novosibirsk, Russia; [3]Laboratoire de Physique de la Matière Condensée, Ecole Polytechnique, Palaiseau, France)*
Spin filter effect in ferromagnetic/semiconductor structures: towards an optical spin-detection with spatial resolution.

5. D.Yu. Usachov[1], A.V. Fedorov[1], O.Yu. Vilkov[1], D.V. Vyalikh[2]
([1]Faculty of Physics, St. Petersburg State University, Russia; [2]Institute of Solid State Physics, Dresden University of Technology, Germany)
Interface architecture and electronic structure of novel graphene-based systems.

6. A.G. Rybkin
(St. Petersburg State University, Russia)
Rashba Splitting in Monolayers of Au, Cu on a W(110) Substrate.

Oral students' session

1. A.B. Odobescu, S.V. Zaitsev-Zotov
(Kotel'nikov IRE RAS, Moscow, Russia)
Temperature-dependence of the surface conductance of the Si(111)7×7 measured by four-point probe technique.

2. Alexander I. Chernov, Pavel V. Fedotov, Alexandr V. Talyzin[2], Inma L. Suarez[1], Ilya V. Anoshkin[3], Albert G. Nasibulin[3], Esko I. Kauppinen[3], Elena D. Obraztsova[1]
([1]A.M. Prokhorov General Physics Institute, RAS, Moscow, Russia; [2]Department of Physics, Umeå University, Sweden; [3]Department of Applied Physics, Aalto University School of Science, Espoo, Finland)
Photoluminescence and Raman spectroscopy of narrow graphene nanoribbons.

Poster students' session

P1. **P.V. Fedotov**, A.I. Chernov, E.D. Obraztsova
(A.M. Prokhorov General Physics Institute, RAS, Moscow, Russia)
Separation of Single-Wall Carbon Nanotubes by Polymer-Modified Aqueous Phases.

P2. **S.N. Bokova-Sirosh**[1], V.L. Kuznetsov[2,3], A.V. Ishchenko[2], S.I. Moseenkov[2], M.A. Shuvaeva[2,3], and E.D. Obraztsova[1]
([1]A.M. Prokhorov General Physics Institute RAS, Moscow, Russia; [2]Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia; [3]Novosibirsk State University, Novosibirsk, Russia)
DIMENSIONAL AND THERMO-INDUCED EFFECTS IN RAMAN SPECTRA OF MULTI-WALL CARBON NANOTUBES.

P3. **K.A. Bokai,** A.V. Erofeevskaya, A.S. Vopilov, D.Yu. Usachov
(Faculty of Physics, St. Petersburg State University, Russia)
Synthesis and electronic structure of graphene heavily doped with boron.

P4. **S.L. Kovalenko**, V.Yu. Yurov, B.V. Andryushechkin, K.N. Eltsov
(A.M. Prokhorov General Physics Institute, RAS, Moscow, Russia)
Atomic structure of gold intercalated graphene on Ni(111): STM study.

P5. **E.V. Zhizhin**
(Saint-Petersburg State University, Russia)
Modification of spin structure of π - states of graphene under contact with heavy metals (Bi, Au, Pt) and their joint intercalation.

P6. **I. Klimovskikh**
(Saint-Petersburg State University, Russia)
Electronic and spin structure of topological and trivial surface states of thermoeffective topological insulator $Bi_2Te_{2.4}Se_{0.6}$.

P7. R. Werner[1], A.Yu. Aladyshkin[2,3], I.M. Nefedov[2,3], **A. Putilov**[2,3], M. Kemmler[1], D. Bothner[1], A. Loerincz[4], K. Ilin[4], M. Siegel[4], R. Kleiner[1] and D. Koelle[1]
([1]Physikalisches Institut—Experimentalphysik II and Center for Collective Quantum Phenomena in LISA+, Universität Tübingen, Germany; [2]Institute for Physics of Microstructures, RAS, Nizhny Novgorod, Russia; [3]Lobachevsky National Research University of Nizhni Novgorod, Russia; [4]Institut für Mikro- und Nanoelektronische Systeme, Karlsruher Institut für Technologie, Germany)
Edge superconductivity in Nb thin film microbridges.

P8. **V. Zheltov**, B. Andryushechkin, G. Zhidomirov, K. Eltsov
(A.M. Prokhorov General Physics Institute, RAS, Moscow, Russia)
A van der Waals corrected DFT study of the chlorine adsorption on Au(111) and Ag(111).

P9. **Tatiana V. Pavlova**, George M. Zhidomirov, Konstantin N. Eltsov
(A.M. Prokhorov General Physics Institute, RAS, Moscow, Russia)
Dissociative adsorption and thermal desorption of chlorine on Cu(111) surface.