

**DOM2015 International Symposium**  
**Monday, 28 September, 2015**

Ani Plaza Hotel

- 8:30-9:30 Registration
- 9:30-9:45 **Opening Remarks**
- 9:45-10:15 **Olivier Thomas**  
Aix-Marseille Université, France  
Strain mapping in silicon around copper filled TSVs using advanced X-Ray nano-diffraction
- 10:15-10:45 **Valeri Harutyunyan**  
Yerevan State University, Armenia  
Strain relaxation in AlN-sapphire (0001) heterostructure
- 10:45-11:00 **Coffee break**
- 11:00-11:30 **Sergei Chvalun**  
National Research Centre "Kurchatov Institute", Moscow, Russia  
"Rubber elasticity of collagen networks"
- 11:30-12:30 **Mkrtich Yeranossyan**  
Yerevan State University, Armenia  
Spin-orbit interaction enhanced polaron effect in wurtzite semiconductor quantum well
- Arman Davtyan**  
University of Siegen, Germany  
Coherent x-ray diffraction imaging of single semiconductor NW's
- Vram Mughnetsyan**  
Yerevan State University, Armenia  
Elastic Strain Distribution in one layer InAs/GaAs Quantum Ring Superlattice
- 12:30-14:30 **Lunch**
- 14:30-15:00 **Arshak Vartanian**  
Yerevan State University, Armenia  
Spin Relaxation in the Presence of Spin-Orbit Interactions in Single Electron Quantum Dots Embedded in a Suspended Phonon Cavity
- 15:00-15:30 **Vladimir Aroutiounian**  
Yerevan State University, Armenia  
The status of research in the department of Physics of Semiconductors and Microelectronics

- 15:30-15:50 **Siranush Avetisyan**  
Yerevan State University, Armenia  
Anisotropic Quantum Dots with Rashba spin-orbit coupling
- 15:50-16:10 **Coffee break**
- 16:10 -16:30 **Levon Haroutunyan**  
Yerevan State University, Armenia  
Phase Contrast Imaging by Amplitude-Division Type Fresnel  
Zone Plate Interferometer
- 16:30-16:50 **Areg Ghazaryan**  
University of Manitoba, Canada  
Aspects of Anisotropic Fractional Quantum Hall Effect in  
Phosphorene
- 17:00-19:00 **Poster session**
- 18:00-19:00 **Welcome reception**

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- 9:30-10:00 **Sergei Ponomarenko**  
Institute of Synthetic Polymer Materials, Moscow, Russia  
Design, synthesis and characteriation of solution-  
processable organic semiconductors for optoelectronic  
applications
- 10:00-10:30 **Edwin Donath**  
University of Leipzig, Germany  
Anomalous diffusion in polyelectrolyte multilayers
- 10:30-11:00 **Coffee break**
- 11:00-11:30 **Elena Agina**  
Enikolopov Institute of Synthetic Polymeric Materials, Russia  
Monolayer OFETs based on thiophene-containing  
organosilicons by Langmuir techniques
- 11:30-12:30 **Eduard Mikayelyan**  
University of Siegen, Germany  
The substrate temperature effect on structure and electrical  
performace of  $\alpha,\alpha'$ -DH5T thin films

**Askold Trul**

Enikolopov Institute of Synthetic Polymeric Materials, Russia  
Monolayer films based on organosilicon BTBT derivatives for  
organic field-effect transistors)

**Daniil Anisimov**

Moscow State University, Russia  
Structure and charge transport properties of crystalline  
oligothiophene Langmuir films

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

14:30-15:00 **Ali Naji**

Institute for Research in Fundamental Sciences, Tehran, Iran  
Disorder effects and anti-fragility in confined Coulomb fluids

15:00-15:30

**Jamlet Monaselidze**

E. Andronikashvili Institute of Physics, Iv. Javakhishvili Tbilisi  
State University, Georgia  
Differential Scanning Calorimetry as a New Method of  
Detection of Cancer and Non-Cancer Diseases on the Basis of  
Human Plasma Monitoring

15:30-16:10

**Lusine Aloyan**

Yerevan State University, Armenia  
Development of anticancer drug transporter on base of gold  
nanoparticles

**Hossein Nili**

Institute for Research in Fundamental Sciences (IPM), Iran  
Augmented hydrodynamic drag in the presence of micro-  
swimmers in a dilute active suspension

20:00-23:00

**Symposium dinner**

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**Wednesday, September 30, 2015**

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- 9:30-10:00     **Holger Schönherr**  
University of Siegen, Germany  
Tailoring Soft Interfaces and Polymer-based  
Nanoarchitectures: From Pores to Tubes and Responsive  
Capsules
- 10:00-10:30    **Yevgeni Mamasakhlisov**  
Yerevan State University, Armenia  
Partially Annealed Disorder and Collapse of Like-Charged  
Macroions
- 10:30-11:00    **Coffee break**
- 11:00-11:30    **Sabu Thomas**  
Mahatma Gandhi University, Kottayam, Kerala, India  
Engineering at the Nanoscale: State of the Art, Challenges  
and New Opportunities
- 11:30-12:30    **Linda. Grodd**  
University of Siegen, Germany  
In-situ nano-GIXD on thiophene-based OFETs
- Elena Tereshenko**  
National Research Centre “Kurchatov Institute”, Moscow,  
Russia  
X-ray standing wave study of layered structures
- Gagik Shmavonyan**  
National Polytechnic University of Armenia, Armenia  
Few layer graphene on paper: Future of flexible electronics
- 12:30-14:30    **Lunch**
- 14:30-15:30    **Discussions**
- 15:30-16:00    **Closing Remarks**