

## ПРОГРАММА

Международных семинаров  
с элементами научной школы для молодых ученых  
«Комплексная (пылевая) плазма: междисциплинарные исследования»,  
МГТУ им. Н.Э. Баумана, 14–18 ноября 2016 года

### Day 1 – 14.11.2016 – «Arrival of Participants»

### Day 2 – 15.11.2016 – «Complex (Dusty) Plasma»

Time	Item	Description
10.00 – 10.30	Opening Ceremony	<b>Gregor Morfill</b> (MPI für Extraterrestrische Physik, Germany)
10.30 – 11.00	Registration & Coffee Brake	–
11.00 – 11.45	Open Lecture	<b>Lenaic Couedel</b> (Aix-Marseille Université, France) <i>“Mode Coupling Instability in 2D Plasma Crystals”</i>
11.45 – 12.30	Open Lecture	<b>Andei M. Lipaev</b> (JIHT RAS, Russia) <i>“Research Program on Complex Plasmas from PK-3 to PK-4”</i>
12.30 – 13.30	Dinner	–
13.30 – 14.15	Open Lecture	<b>Gregor Morfill</b> (MPI für Extraterrestrische Physik, Germany) <i>“From fundamental plasma crystal research to plasma applications”</i>
14.15 – 15.00	Open Lecture	<b>Alexei Ivlev</b> (MPI für Extraterrestrische Physik, Germany) <i>“2D and quasi-2D complex plasmas: latest developments”</i>
15.00 – 16.00	Work Group	<b>Stanislav O. Yurchenko</b> (BMSTU, Russia) <i>“Experimental Observation of Non-Equilibrium Combustion at Kinetic Level using the Complex Plasma”</i>
16.00 – 17.00	Experimental Demonstrations	<b>Egor V. Yakovlev</b> (BMSTU, Russia) <i>“Experimental Demonstration of Complex Plasmas Crystallization”</i>

<b>Day 3 – 16.11.2016 – «Many Body Systems: Theoretical &amp; Experimental Study»</b>		
<b>Time</b>	<b>Item</b>	<b>Description</b>
10.00 – 10.45	Registration & Coffee Brake	–
11.00 – 11.45	Open Lecture	<b>В.В. Бражкин</b> (ИФВД РАН, Россия) <i>“Между газом и стеклом: жидкость при сверхкритических давлениях”</i>
11.45 – 12.30	Open Lecture	<b>В.Н. Рыжов</b> (ИФВД РАН, Россия) <i>“Может ли случайный пиннинг изменить сценарий двумерного плавления?”</i>
12.30 – 13.00	Open Lecture	<b>Ю.Д. Фомин</b> (ИФВД РАН, Россия) <i>“Фазовые диаграммы и аномальное поведение жидкостей: сложное поведение простых систем”</i>
13.00 – 13.30	Open Lecture	<b>Е.Н. Циок</b> (ИФВД РАН, Россия) <i>“Влияние конфайнмента на плавление двумерной системы с потенциалом с отрицательной кривизной”</i>
13.30 – 14.30	Dinner	–
14.30 – 15.00	Work Group	<b>Stanislav O. Yurchenko</b> (BMSTU, Russia) <i>“Pair Correlations in Classic Crystalline Systems: The Shortest-Graph Approach”</i>
15.00 – 15.30	Work Group	<b>Nikita P. Kruchkov</b> (BMSTU, Russia) <i>“Colloidal Suspension in Rotating Electric Field: Phase Diagram of the System”</i>
15.30 – 16.00	Talk	<b>Vladimir S. Gorelik</b> (GPI RAS, Russia) <i>“Wave Processes in Low-Symmetric Dielectric Materials at Stimulated Combination Light Scattering”</i>
16.00 – 17.00	Experimental Demonstrations	<b>Egor V. Yakovlev</b> (BMSTU, Russia) <i>“Self-Assembling of Colloidal Suspension in Rotating Electric Field: Experimental Study”</i>
17.00 – 18.00	Discussions & Coffee Brake	–

<b>Day 4 – 17.11.2016 – «Fundamental &amp; Applied Problems of Photonics &amp; Condensed Matter Physics»</b>		
<b>Time</b>	<b>Item</b>	<b>Description</b>
10.00 – 11.00	Registration & Coffee Brake	–
11.00 – 11.30	Talk	<b>Elena S. Zhukova</b> (MIPT, Russia) <i>“Water ferroelectricity”</i>
11.30 – 12.00	Talk	<b>Konstantin A. Motovilov</b> (MIPT, Russia) <i>“Dielectric universalities in biomaterials”</i>
12.00 – 12.30	Talk	<b>Olga P. Cherkasova</b> (ILP SB RAS, Russia) <i>“Biological Tissue Exposure to THz Electromagnetic Waves”</i>
12.30 – 13.00	Talk	<b>Sergey P. Lebedev</b> (GPI RAS, Russia) <i>“Sub-Millimeter BWO-Spectroscopy”</i>
13.00 – 14.00	Dinner	–
13.30 – 14.00	Talk	<b>Vladimir M. Masalov</b> (ISSP RAS, Russia) <i>“Manufacturing Colloidal Nanoparticles and Colloidal Photonic Crystals”</i>
14.00 – 14.30	Talk	<b>Vladimir N. Kurlov</b> (ISSP RAS, Russia) <i>“Shaped Crystal Growth Technology for Applications in Optical and Photonics”</i>
14.30 – 15.00	Talk	<b>Irina A. Shikunova</b> (ISSP RAS, Russia) <i>“Shaped Sapphire for Medicine”</i>
15.30 – 16.00	Talk	<b>Vladimir A. Lazarev</b> (BMSTU, Russia) <i>“Chalcogenide single crystals with anti-reflection texturing exhibiting low-loss lasing in Mid-IR”</i>
16.00 – 17.00	Discussions & Coffee Brake	–

<b>Day 5 – 18.11.2016 – «Biomedical Optics</b>		
<b>Time</b>	<b>Item</b>	<b>Description</b>
10.00 – 11.00	Registration & Coffee Brake	–
10.45 – 11.30	Talk	<b>Elena N. Rims kaya</b> (BMSTU, Russia) <i>“Automatic Detection of Pigmentary Skin Neoplasms using VIS Digital Imaging”</i>
11.30 – 12.15	Talk	<b>Olga P. Cherkasova</b> (ILP SB RAS, Russia) <i>“Noninvasive Blood Glucose Monitoring in the Terahertz Frequency Range”</i>
12.15 – 13.00	Talk	<b>Kirill I. Zaytsev,</b> <i>Spectroscopic Methods for Skin Cancer Diagnosis using Terahertz Electromagnetic Waves</i>
13.00 – 14.00	Dinner	–
13.30 – 14.00	Talk	<b>Irina N. Dolganova,</b> <i>Terahertz Imaging in Hybrid (Active &amp; Passive) Modality</i>
14.00 – 14.30	Talk	<b>Nikita V. Chernomyrdin,</b> <i>Near-Field Solid-State Immersion Terahertz Lenses for Improved-Spatial-Resolution Terahertz Imaging and Spectroscopy</i>
14.30 – 15.00	Talk	<b>Anastasiya D. Lesnichaya,</b> <i>Differentiating Basal Cell Carcinoma and Healthy Skin Using Multi-Spectral Modulation Autofluorescence Imaging</i>
15.00 – 16.00	Discussions & Coffee Brake	–