### Monday July 1, 2019

| 18:00 to 19:30 | Registration and Welcome Cocktail |

### Day 1 - Tuesday July 2, 2019

| 08:30 | Registration |

| 09:00 | **Alevtina Chernikova** | NUST MISIS rector |
|       | Welcome Speech |

| 09:10 | **Alexey Kavokin** |
|       | Opening Ceremony |

**Session Chair**

**Aldo Di Carlo**

| 09:20 | **Anders Hagfeldt** | Invited Speaker |
|       | *Perovskite Solar Cells* |

| 09:50 | **Eugene Katz** | Invited Speakers |
|       | *Luminescence Under Sunlight Excitation And Photon Recycling: From Gaas To Perovskite Photovoltaics* |

| 10:20 | **Rainer F. Mahrt** | Invited Speakers |
|       | *Superfluorescent Emission from Cesium Lead Halide Perovskite Quantum Dot Superlattices* |

| 10:50 | **Andrea Reale** | Invited Speakers |
|       | *Printable Organic Photovoltaic Devices Based on CVD Graphene Transparent Electrodes* |

| 11:20 | Coffee Break |

**Session Chair**

**Aldo Di Carlo**

<p>| 11:50 | <strong>Andrey Rogach</strong> | Invited Speaker |
|       | <em>Perovskite Nanocrystals in Light-Emitting Devices</em> |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:20</td>
<td>Chris Bailey</td>
<td>Effect of illumination and ambient conditions on recombination dynamics in CH$_3$NH$_3$PbI$_3$ thin films</td>
</tr>
<tr>
<td>12:40</td>
<td>Arthur Ishteev</td>
<td>Ambipolar perovskite light emitting diodes</td>
</tr>
<tr>
<td>13:00</td>
<td>Aleksandra Boldyreva</td>
<td>Towards more stable hybrid perovskite solar cells: unravelling the interface-induced degradation mechanisms</td>
</tr>
<tr>
<td>13:20</td>
<td>Thai Son Le</td>
<td>Perovskite solar cells with slot-die printed hole transporting and absorbing layers</td>
</tr>
<tr>
<td>13:40</td>
<td></td>
<td>Lunch</td>
</tr>
</tbody>
</table>

### Session Chair
Alexey Kavokin

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:00</td>
<td>Sven Höfling</td>
<td>Quantum dot single photon sources for quantum technologies</td>
</tr>
<tr>
<td>15:30</td>
<td>Franco Nori</td>
<td>Quantum Nonlinear Optics without Photons, how to excite two or more atoms simultaneously with a single photon, and other unusual properties of ultra-strongly-coupled QED systems</td>
</tr>
<tr>
<td>16:00</td>
<td>Pavlos Lagoudakis</td>
<td>Polariton Lattice Analogue Simulators: a newcomer to problem-specific solvers</td>
</tr>
<tr>
<td>16:30</td>
<td></td>
<td>Coffee Break</td>
</tr>
</tbody>
</table>

### Session Chair
Pavlos Savvidis

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:00</td>
<td>Vladimir Agranovich</td>
<td>t.b.d.</td>
</tr>
<tr>
<td>17:30</td>
<td>Anton Zasedatelev</td>
<td>An organic polariton transistor</td>
</tr>
<tr>
<td>17:50</td>
<td>Raphael Ribeiro</td>
<td>Enhancement of infrared optical nonlinearities with vibrational strong coupling</td>
</tr>
<tr>
<td>18:10</td>
<td>Artur Trifonov</td>
<td>High-angle Brewster cavity exciton-polaritons</td>
</tr>
</tbody>
</table>

FREE TIME IN MOSCOW
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Transfer to Suzdal</td>
</tr>
<tr>
<td></td>
<td>The Meeting Point is the MISiS Entrance</td>
</tr>
<tr>
<td>13:20</td>
<td>Lunch</td>
</tr>
<tr>
<td>16:00</td>
<td>Check-In</td>
</tr>
<tr>
<td></td>
<td>PUSHKARSKAYA SLOBODA</td>
</tr>
<tr>
<td>17:00</td>
<td>POSTER SESSION and</td>
</tr>
<tr>
<td></td>
<td>SNACK PARTY</td>
</tr>
<tr>
<td>Time</td>
<td>Speaker</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------</td>
</tr>
</tbody>
</table>
| 09:00  | Alexey Kavokin                   | Invited Speakers
|        | Split-ring polariton condensates as two-level quantum systems        |
| 09:30  | Guillaume Malpuech               | Invited Speakers
|        | Exciton-Polariton based topological photonics and topological lasers |
| 10:00  | Anton Nalitov                    | Polariton space-time crystals                                        |
| 10:20  | Vanik Shahnazaryan               | Strong Light–Matter Coupling in Carbon Nanotubes as a Route to Exciton Brightening |
| 10:40  | Yotam Mazuz-Harpaz               | Dynamical formation of a strongly correlated dark condensate of dipolar excitons |
| 11:00  |                                  | Coffee Break                                                         |
| 11:30  | Thibault Chervy                  | Invited Speaker
|        | Polaron-Polaritons in the fractional quantum Hall regime              |
| 12:00  | Helgi Sigurðsson                 | Geometrically induced circulating flows in polariton condensates     |
| 12:20  | Sergei Gavrilov                  | Vortices in a polariton fluid under resonant plane-wave driving      |
| 12:40  | Igor Chestnov                    | Pseudo-drag of a polariton superfluid                               |
| 13:00  | Oleksandr Kyriienko              | Nonlinear quantum optics with trion polaritons                       |
| 13:20  |                                  | Lunch                                                                |
| 14:30  | Simone Strohmair                 | Invited Speaker
<p>|        | Spin related carrier dynamics in CsPbI$_5$ nanocrystals              |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:00</td>
<td>Boaz Lubotzky</td>
<td>Nitrogen vacancy center coupled to hybrid metal-dielectric bullseye nanoantenna for highly directional, room temperature Single Photon Sources</td>
</tr>
<tr>
<td>15:20</td>
<td>Alexander Kuznetsov</td>
<td>Modulation of exciton-polaritons by coherent GHz phonons</td>
</tr>
<tr>
<td>15:40</td>
<td>Hamza Abudayyeh</td>
<td>Quantum light manipulation: A path towards efficient pure room-temperature single photon sources</td>
</tr>
<tr>
<td>16:00</td>
<td></td>
<td>Coffee Break</td>
</tr>
<tr>
<td>16:30</td>
<td></td>
<td><strong>Session Chair</strong>* Thibault Chervy</td>
</tr>
<tr>
<td>16:30</td>
<td>Geogy Shlyapnikov</td>
<td>Invited Speaker</td>
</tr>
<tr>
<td>17:00</td>
<td>Alexander Gorbunov</td>
<td>Fast spin transport in a Hall insulator</td>
</tr>
<tr>
<td>17:20</td>
<td>Nina Voronova</td>
<td>Direct exciton Bose condensation in off-resonant cavities</td>
</tr>
<tr>
<td>17:40</td>
<td>Elena Rozas</td>
<td>Polariton propagation in 1D directional couplers</td>
</tr>
<tr>
<td>18:00</td>
<td>Carlos Duque</td>
<td>Magnetic and laser field effects on the intraband transitions of AlGaAs/GaAs quantum rings</td>
</tr>
<tr>
<td>18:20</td>
<td>Felix Holzner</td>
<td>Ultra-high precision 3D nanopatterning for advanced nanophotonic devices</td>
</tr>
<tr>
<td></td>
<td><strong>Announcement for next PLMCN</strong></td>
<td>Guillaume Malpuech</td>
</tr>
<tr>
<td></td>
<td>CONFERENCE DINNER</td>
<td></td>
</tr>
</tbody>
</table>
### Session Chair
#### Hui Deng

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Title/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30</td>
<td>Aleksey Fedorov</td>
</tr>
<tr>
<td>15:00</td>
<td>Paulo V. Santos</td>
</tr>
<tr>
<td></td>
<td><em>Anisotropic Dipolar Interactions in Coupled Excitonic Bilayers</em></td>
</tr>
<tr>
<td>15:30</td>
<td>Mengjie Wei</td>
</tr>
<tr>
<td></td>
<td><em>Low threshold polariton lasing in a highly disordered conjugated polymer</em></td>
</tr>
<tr>
<td>15:50</td>
<td>Vyacheslav Polyakov</td>
</tr>
<tr>
<td></td>
<td><em>Automated adjustment of scanning parameters in tapping mode for imaging of nanostructures in visible, IR and THz s-SNOM</em></td>
</tr>
<tr>
<td>16:10</td>
<td>Coffee Break</td>
</tr>
</tbody>
</table>

### Session Chair
#### Paulo V. Santos

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Title/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:40</td>
<td>Hui Deng</td>
</tr>
<tr>
<td></td>
<td><em>When Bose-Einstein condensates have dissipations or have not bosons</em></td>
</tr>
<tr>
<td>17:00</td>
<td>David Colas</td>
</tr>
<tr>
<td></td>
<td><em>Formation of nonlinear X-waves in condensed matter systems</em></td>
</tr>
<tr>
<td>17:20</td>
<td>Xuekai Ma</td>
</tr>
<tr>
<td></td>
<td><em>Realization of vortex switching in polariton condensates</em></td>
</tr>
<tr>
<td>17:40</td>
<td>Clément Millet</td>
</tr>
<tr>
<td></td>
<td><em>Measurement back-action induced by a single photon on a single spin</em></td>
</tr>
<tr>
<td>18:00</td>
<td>Valerii Kozin</td>
</tr>
<tr>
<td></td>
<td><em>Resonant excitation of acoustic waves in exciton-polariton systems</em></td>
</tr>
</tbody>
</table>

### Program Committee Dinner
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Title</th>
</tr>
</thead>
</table>
| 09:10 | Ivan Iorsh | Invited Speaker  
*Strong light matter coupling of excitons in two-dimensional materials to optical bound states in the continuum* |
| 09:40 | Ivan Savenko  
*Quantum anomalous valley Hall effect for excitons in MoS₂* |
| 10:00 | Alexis Askitopoulos  
*Giant temporal coherence in weakly interacting polariton condensates* |
| 10:20 | Philipp Zimmermann  
*Towards plasmonic tunnel gaps for nanoscale photoemission currents by on-chip laser ablation* |
| 10:40 | Ruggero Emmanuele  
*Highly nonlinear trion-polaritons in a monolayer semiconductor* |
| 11:00 | Coffee Break |
| 11:30 | Dmitry Efimkin  
*Exciton-polarons in doped semiconductors* |
| 11:50 | Julian Toepfer  
*Macroscopically coupled polariton condensates* |
| 12:10 | Thierry Guillet | Invited Speaker  
*Controlled and thermalized indirect exciton fluids in a GaN/AlGaN quantum well with electrostatic traps* |
| 13:20 | Lunch |
| 14:30 | Davide Maria Di Paola  
*Nonlinear pulse modulation in a high velocity gallium nitride polariton waveguide up to 200 Kelvin* |
| 14:50 | Snezana Lazic  
*Acoustically driven optical polarization control of the quantum dot emission* |
15:10  Jonas Kiemle  
*Hybridized indirect excitons in MoS$_2$/WS$_2$ heterobilayers*

15:30  Timur Yagafarov  
*Room Temperature Broadband Polariton Lasing from a Dye-Filled Microcavity*

15:50  Sergey Arakelian  
*New controllable electrophysics and optics of granulated thin films: the 4D laser-induced topological nanoclusters*

**CLOSING CEREMONY**