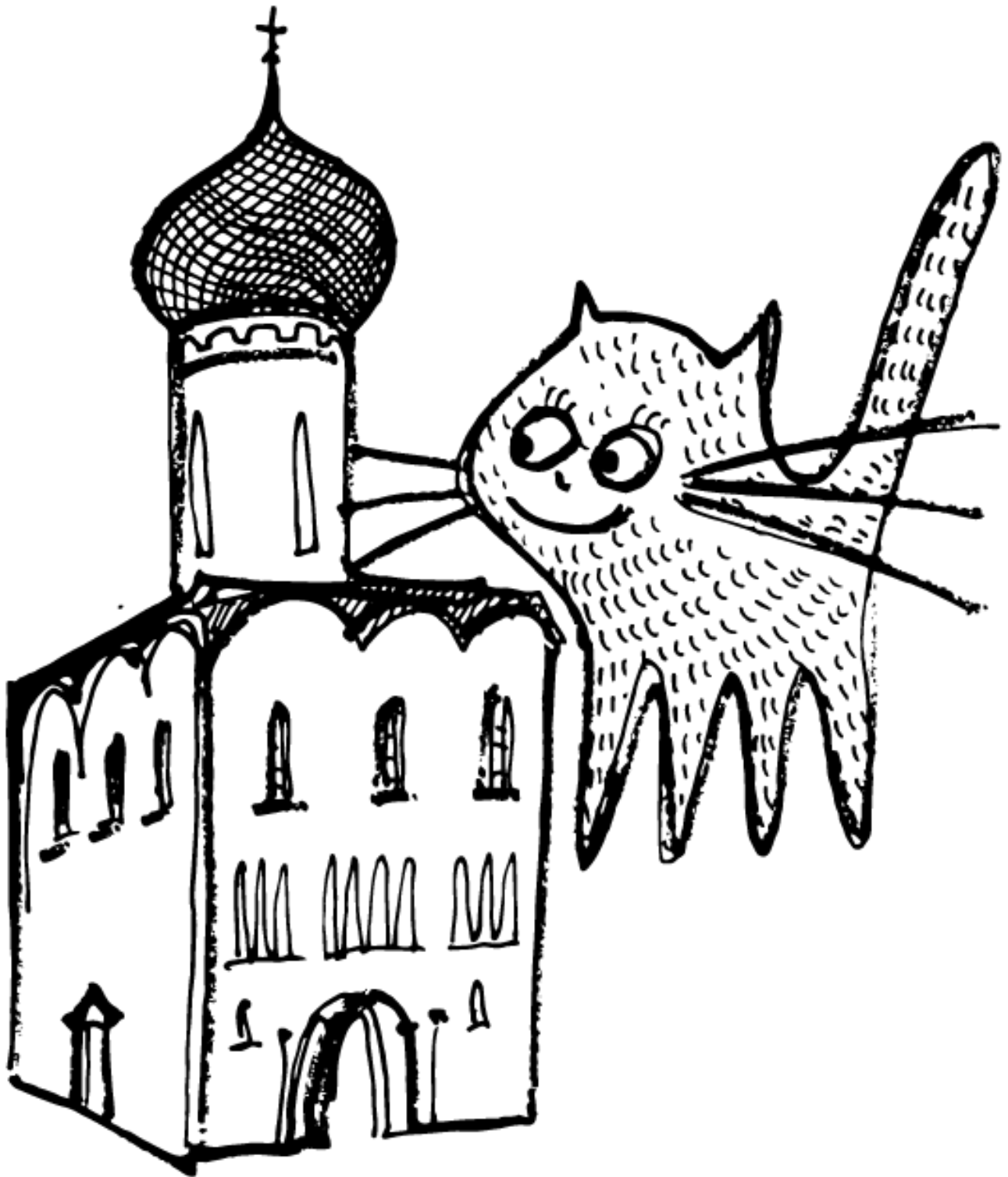


PLMCN 2019 AGENDA



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

11:50

Andrey Rogach | Invited Speaker
Perovskite Nanocrystals in Light-Emitting Devices

12:20	Chris Bailey <i>Effect of illumination and ambient conditions on recombination dynamics in $CH_3NH_3PbI_3$ thin films</i>
12:40	Arthur Ishteev <i>Ambipolar perovskite light emitting diodes</i>
13:00	Aleksandra Boldyreva <i>Towards more stable hybrid perovskite solar cells: unravelling the interface-induced degradation mechanisms</i>
13:20	Thai Son Le <i>Perovskite solar cells with slot-die printed hole transporting and absorbing layers</i>
13:40	Lunch

Session Chair
Alexey Kavokin

15:00	Sven Höfling Invited Speaker <i>Quantum dot single photon sources for quantum technologies</i>
15:30	Franco Nori Invited Speaker <i>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</i>
16:00	Pavlos Lagoudakis Invited Speaker <i>Polariton Lattice Analogue Simulators: a newcomer to problem-specific solvers</i>
16:30	Coffee Break

Session Chair
Pavlos Savvidis

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

FREE TIME IN MOSCOW

Day 2 - Wednesday July 3, 2019

09:00	Transfer to Suzdal The Meeting Point is the MISiS Entrance
13:20	Lunch
16:00	Check-In PUSHKARSKAYA SLOBODA
17:00	POSTER SESSION and SNACK PARTY

Day 3 - Thursday July 4, 2019

Session Chair
Pavlos Savvidis

09:00	Alexey Kavokin Invited Speakers <i>Split-ring polariton condensates as two-level quantum systems</i>
09:30	Guillaume Malpuech Invited Speakers <i>Exciton-Polariton based topological photonics and topological lasers</i>
10:00	Anton Nalitov <i>Polariton space-time crystals</i>
10:20	Vanik Shahnazaryan <i>Strong Light-Matter Coupling in Carbon Nanotubes as a Route to Exciton Brightening</i>
10:40	Yotam Mazuz-Harpaz <i>Dynamical formation of a strongly correlated dark condensate of dipolar excitons</i>
11:00	Coffee Break

Session Chair
Guillaume Malpuech

11:30	Thibault Chervy Invited Speaker <i>Polaron-Polaritons in the fractional quantum Hall regime</i>
12:00	Helgi Sigurðsson <i>Geometrically induced circulating flows in polariton condensates</i>
12:20	Sergei Gavrilov <i>Vortices in a polariton fluid under resonant plane-wave driving</i>
12:40	Igor Chestnov <i>Pseudo-drag of a polariton superfluid</i>
13:00	Oleksandr Kyriienko <i>Nonlinear quantum optics with trion polaritons</i>
13:20	Lunch

Session Chair
Georgy Shlyapnikov

14:30	Simone Strohmer Invited Speaker <i>Spin related carrier dynamics in CsPbI₃ nanocrystals</i>
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15:00	Boaz Lubotzky <i>Nitrogen vacancy center coupled to hybrid metal-dielectric bullseye nanoantenna for highly directional, room temperature Single Photon Sources</i>
15:20	Alexander Kuznetsov <i>Modulation of exciton-polaritons by coherent GHz phonons</i>
15:40	Hamza Abudayyeh <i>Quantum light manipulation: A path towards efficient pure room-temperature single photon sources</i>
16:00	Coffee Break

Session Chair
Thibault Chervy

16:30	Georgy Shlyapnikov Invited Speaker <i>New trends in the physics of cold atoms</i>
17:00	Alexander Gorbunov <i>Fast spin transport in a Hall insulator</i>
17:20	Nina Voronova <i>Direct exciton Bose condensation in off-resonant cavities</i>
17:40	Elena Rozas <i>Polariton propagation in 1D directional couplers</i>
18:00	Carlos Duque <i>Magnetic and laser field effects on the intraband transitions of AlGaAs/GaAs quantum rings</i>
18:20	Felix Holzner <i>Ultra-high precision 3D nanopatterning for advanced nanophotonic devices</i>

Announcement for next PLMCN
Guillaume Malpuech

CONFERENCE DINNER

Day 4 - Friday July 5, 2019

09:00

EXCURSION

13:20

Lunch

Session Chair
Hui Deng

14:30

Aleksey Fedorov | Invited Speakers
t.b.d.

15:00

Paulo V. Santos | Invited Speakers
Anisotropic Dipolar Interactions in Coupled Excitonic Bilayers

15:30

Mengjie Wei
Low threshold polariton lasing in a highly disordered conjugated polymer

15:50

Vyacheslav Polyakov
Automated adjustment of scanning parameters in tapping mode for imaging of nanostructures in visible, IR and THz s-SNOM

16:10

Coffee Break

Session Chair
Paulo V. Santos

16:40

Hui Deng | Invited Speaker
When Bose-Einstein condensates have dissipations or have not bosons

17:00

David Colas
Formation of nonlinear X-waves in condensed matter systems

17:20

Xuekai Ma
Realization of vortex switching in polariton condensates

17:40

Clément Millet
Measurement back-action induced by a single photon on a single spin

18:00

Valerii Kozin
Resonant excitation of acoustic waves in exciton-polariton systems

Program Committee Dinner

Day 5 - Saturday July 6, 2019

Session Chair
Thierry Guillet

09:10	Ivan Iorsh Invited Speaker <i>Strong light matter coupling of excitons in two-dimensional materials to optical bound states in the continuum</i>
09:40	Ivan Savenko <i>Quantum anomalous valley Hall effect for excitons in MoS₂</i>
10:00	Alexis Askitopoulos <i>Giant temporal coherence in weakly interacting polariton condensates</i>
10:20	Philipp Zimmermann <i>Towards plasmonic tunnel gaps for nanoscale photoemission currents by on-chip laser ablation</i>
10:40	Ruggero Emmanuele <i>Highly nonlinear trion-polaritons in a monolayer semiconductor</i>
11:00	Coffee Break

Session Chair
Ivan Iorsh

11:30	Dmitry Efimkin <i>Exciton-polarons in doped semiconductors</i>
11:50	Julian Toepfer <i>Macroscopically coupled polariton condensates</i>
12:10	Thierry Guillet Invited Speaker <i>Controlled and thermalized indirect exciton fluids in a GaN/AlGaN quantum well with electrostatic traps</i>
13:20	Lunch

Session Chair
Alexis Askitopoulos

14:30	Davide Maria Di Paola <i>Nonlinear pulse modulation in a high velocity gallium nitride polariton waveguide up to 200 Kelvin</i>
14:50	Snezana Lazic <i>Acoustically driven optical polarization control of the quantum dot emission</i>

- 15:10 **Jonas Kiemle**
Hybridized indirect excitons in MoS₂/WS₂ 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

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