

# Program

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The PDF file with the program is [here](#)

## September 17

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### N. A. Vavilov Anniversary .

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| 09:00 — 09:30 | Registration   |
| 09:30 — 09:45 | Opening  |
| 09:45 — 11:20 | <b>Ivan Panin</b> (Steklov Math Institute at Spb)<br>On the Grothendieck--Serre conjecture   |
| 11:20 — 11:50 | Coffee break   |
| 11:50 — 12:50 | <b>Alexei Semenov</b> (Moscow State University)<br>N. Vavilov and Digital Foundations of Mathematics and Mathematical Education                |
| 12:50 — 14:30 | Lunch  |
| 14:30 — 16:05 | <b>Agatha Atkarskaya</b> (Hebrew University of Jerusalem)<br>Groebner-Shirshov bases, Dehn's algorithm and small cancellation rings            |
| 16:05 — 16:35 | Coffee break   |
| 16:35 — 18:10 | <b>Alexei Miasnikov</b> (Stevens Institute of Technology)<br>"Algebraic groups: abstract isomorphisms, Diophantine problems, and model theory" |
| 18:15 — 19:05 | <b>Victor Petrov</b><br>Symmetric spaces and cohomology of algebraic groups  |
| 19:10 — 21:30 | Welcome party and Memories   |

## September 18

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| 09:00 — 09:50 | <b>Anatoly Kondratiev</b> (N.N. Krasovskii Institute of Mathematics and Mechanics)<br>Finite groups without elements of order $2p$ for an odd prime $p$ |
| 10:00 — 11:35 | <b>Ivan Arzhantsev</b> (Faculty of Computer Science, HSE University)<br>Linear Algebraic Groups vs Automorphism Groups                                  |
| 11:35 — 12:05 | Coffee break  |

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| 12:05 — 13:05 | <b>Alex Lubotzky</b> (Weizmann Institute )<br>Uniform stability of high-rank Arithmetic groups                       |
| 13:05 — 14:30 | Lunch  |
| 14:30 — 15:30 | Meeting with <b>Era Korobova</b> . (The State Hermitage Museum)  |
| 15:30 — 16:00 | Coffe break  |
| 16:00 — 17:35 | <b>Nikolai Gordeev</b> (Russian State Pedagogical University im. A. I. Herzen)<br>Some problems around $SL_2(C)$     |
| 17:40 — 19:15 | <b>Andrei Rapinchuk</b> (University of Virginia)<br>Division algebras and algebraic groups: structure and cohomology |

## September 19

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|---------------|--|
| 09:00 — 09:50 | <b>Alexei Stepanov</b> (St.Petersburg State University)<br>Sandwich classification theorem by generic element method                           |
| 10:00 — 11:00 | <b>Sergei Lando</b> (National Research University Higher School of Economics )<br>Algebras of permutations                                     |
| 11:00 — 11:30 | Coffee break   |
| 11:30 — 13:05 | <b>Dmitry Grigoryev</b> (CNRS)<br>Tropical vs. classical algebra   |
| 13:05 — 14:30 | Lunch  |
| 14:30 — 16:05 | <b>Alexandre Borovik</b> (University of Manchester)<br>Ideas for a radical reform of mathematics education, après Arnold, Gelfand, and Vavilov |
| 16:05 — 16:30 | Coffee break   |
| 16:30 — 17:00 | <b>Alexey Kanel-Belov</b> (Bar-Ilan University)<br>Matrix evaluations of non-commutative polynomials   |
| 17:00 — 18:35 | <b>Igor Frenkel</b> (Yale University)<br>Basic representations of affine Lie algebras and theory of Chevalley groups.                          |
| 18:10 — 19:30 | Closing. Memories of Nikolai Vavilov   |