



Mal'tsev Meeting '09

Sobolev Institute of Mathematics, 4 pr. Akad. Koptyuga, 630090 Novosibirsk, Russia
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Programme of Mal'tsev Meeting

August 23, Sunday

Arrival day. Registration of participants at the foyer of the hotel (5 p.m. till 8 p.m.).

August 24, Monday

Registration of participants at the foyer of the House of scientists (9 a.m. till 2:30 p.m.)

House of scientists, Large hall

10:00 Opening of the conference

10:30 Plenary session (chair: Sergei Goncharov)

10:30 Yu. L. Ershov. *On a way from logic to algebra*

11:20 Coffee break

12:00 S. I. Adian. *The Burnside problem and related topics*

13:00 A. Nerode. *Recurrence systems on arbitrary multisorted structures and their associated update transducers: Modeling reasoning and computation in networks and distributed databases*

13:50 Lunch break

15:20 Plenary session (chair: Yurii Ershov)

15:20 D. Scott. *Boolean-valued analysis and modal logic*

16:20 L. L. Maksimova. *Algebraic approach to non-classical logic*

House of scientists, Small hall

17:00 Special session dedicated to the memory of Anatolii I. Mal'tsev (chair: Igor' Lavrov)

August 25, Tuesday

Sobolev Institute of Mathematics

9:00 Plenary session (chair: Vladimir Remeslennikov)

9:00 V. D. Mazurov. *Groups with prescribed sets of orders of elements*

10:00 L. A. Shemetkov. *Formation algebra*

10:50 Coffee break

11:30 Plenary session (chair: Dana Scott)

11:30 M. Vardi. *Constraints, graphs, algebra, logic, and complexity*

12:30 S. S. Goncharov. *Developing Mal'tsev's ideas in numbering theory and computable model theory*

13:20 Lunch break

15:00 Plenary session (chair: Andrei Morozov)

15:00 A. Macintyre. *Exponential fields — Algebra and analysis*

16:00 Contributions in sections

Group theory-1

Ring theory-1

Computability theory

Group theory-2

Model theory

Non-classical logics

Group theory-3

Universal algebra

INF's canteen

18:30 Conference dinner

August 26, Wednesday

Sobolev Institute of Mathematics

9:00 Plenary session (chair: Viktor Mazurov)

9:00 A. V. Mikhalev and E. I. Bunina. *Model theoretical methods in the theory of rings and linear groups: Elementary equivalence and orthogonal completeness*

10:00 O. Kharlampovich and A. Miasnikov. *Model theory for fully residually free and similar groups*

10:50 Coffee break

11:30 Plenary session (chair: A. Nerode)

11:30 B. Khoussainov. *Automatic structures: Proving non-automaticity*

12:30 J. Knight. *Turing computable embeddings*

13:20 Lunch break and free time

August 27, Thursday

Sobolev Institute of Mathematics

9:00 Plenary session (chair: J.Knight)

9:00 M. M. Arslanov. *Model-theoretic aspects of the non-computable universe*

10:00 A. S. Morozov. *Automorphism spectra of computable structures*

10:50 Coffee break

11:30 Plenary session (chair: Alexei Miasnikov)

11:30 M. V. Semenova. *Embedding lattices into derived lattices*

12:30 V. N. Remeslennikov. *Limit algebraic structures and algebra-geometrical boundary*

13:20 Lunch break

15:00 Plenary session (chair: Evgenii Palyutin)

15:00 S. Wainer. *Computing bounds from (arithmetical) proofs*

16:00 S. V. Sudoplatov. *Distributions of countable models of small theories*

16:45 Contributions in sections

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|----------------|------------------------------------|----------------------|
| Group theory-1 | Ring theory-1 | Computability theory |
| Group theory-2 | Ring theory-2 | Non-classical logics |
| Group theory-3 | Model theory and universal algebra | |

August 28, Friday

Sobolev Institute of Mathematics

9:00 Plenary session (chair: Bakhadyr Khoussainov)

9:00 D. Normann. *Computations and functionals of finite types*

10:00 I. Soskov. *The ω -enumeration degrees*

10:50 Coffee break

11:30 Plenary session (chair: Olga Kharlampovich)

11:30 B. Zilber. *On model theory, noncommutative geometry and physics*

12:30 N. S. Romanovskii. *Algebraic geometry over solvable groups*

13:20 Lunch break

15:00 Plenary session (chair: Dag Normann)

15:00 U. Kohlenbach. *Recent applications of proof theory to core mathematics*

16:00 K. Weihrauch. *Computable separation in topology*

16:45 Contributions in sections

| | | |
|----------------|------------------------------------|---------------------------|
| Group theory-1 | Ring theory-1 | Computability theory |
| Group theory-2 | Ring theory-2 | Non-classical logics |
| Group theory-3 | Model theory and universal algebra | Philosophy of mathematics |

18:30 Closing of the conference

August 29, Saturday

Departure day.