



Mal'tsev Meeting 2010

May 2, Sunday

Foyer of the conference hall

10:00...11:55

Registration of participants

Conference hall

Chairman S. S. Goncharov

11:55...12:00

Conference opens

Chairman Yu. L. Ershov

12:00...12:40 Sergeĭ Goncharov
(Novosibirsk, Russia)

Strongly constructive models and enumerations

12:50...13:30 Marat Arslanov
(Kazan', Russia)

[Applications of the Ershov difference hierarchy in the computable algebra and the complexity theory](#)

Lunch break

Chairman S. A. Badaev

15:00...15:40 Alekseĭ Stukachev
(Novosibirsk, Russia)

Semilattices of Sigma-degrees of structures

15:50...16:30 Mariya Soskova
(Sofia, Bulgaria)

Definability and interpretability in the Sigma-0-2 enumeration degrees

Conference hall, Rooms 115, 213, 220, 344, and 417

16:45...19:00 Contributions in sections:

- *[Computability theory](#)* (CH)
- *[Group theory 1](#)* (213)
- *[Group theory 2](#)* (220)
- *[Model theory and universal algebra](#)* (115)
- *[Non-classical logics](#)* (417)
- *[Ring theory](#)* (344)

Institute's canteen

Welcome party



Mal'tsev Meeting 2010

May 3, Monday

Conference hall

Chairman A. S. Morozov

- 9:00...9:40** Antonio Montalban (Chicago, USA) *[Counting the back-and-forth types](#)*
- 9:50...10:30** Noam Greenberg (Wellington, New Zealand) *[Effective properties of uncountable linear orderings](#)*
- 10:40...11:20** Barbara Csima (Waterloo, Canada) *[The complexity of the upper and lower central series of computable nilpotent groups](#)*

Coffee break

Chairman S. B. Cooper

- 12:00...12:40** Serikzhan Badaev (Almaty, Kazakhstan) *Computable numberings in the Ershov hierarchy*
- 12:50...13:30** Andrea Sorbi (Siena, Italy) *The Medvedev lattice and intermediate propositional logics*

A photograph of participants will be taken at the entrance to the institute

Lunch break

Chairman K. Keimel

- 15:00...15:40** Aleksandr Mikhalev (Moscow, Russia) *Orthogonal completion in ring theory: the history and recent results*
- 15:50...16:30** Aleksandr Pinus (Novosibirsk, Russia) *Implicit algebraic geometry on the categories of universal algebras*

Conference hall, Rooms 115, 213, 220, 344, and 417

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Mal'tsev Meeting 2010

May 4, Tuesday

Conference hall

Chairman K. Ambos-Spies

- 9:00...9:40** Sy David Friedman (Vienna, Austria) *[Equivalence relations in set theory, computation theory and complexity theory](#)*
- 9:50...10:30** Theodore A. Slaman (Berkeley, USA) *Effective randomness and continuous measures*
- 10:40...11:20** S. Barry Cooper (Leeds, UK) *[Aspects of the Ershov hierarchy](#)*

Coffee break

Chairman P. E. Alaev

- 12:00...12:40** Angus Macintyre (London, UK) *Algebraic numbers definable in Zilber's exponential field*
- 12:50...13:30** Klaus Keimel (Darmstadt, Germany) *Scott–Ershov domains in topology and analysis*

Lunch break

Chairman V. D. Mazurov

- 14:30...15:20** Yuriĭ Ershov (Novosibirsk, Russia) *Notions (constructions) and (or) theorems*
- 15:30** *Special session honouring Academician Yurii Ershov on occasion of his 70th birthday*

House of Scientists

18:00 Banquet



Mal'tsev Meeting 2010

May 5, Wednesday

Conference hall

Chairman A. Sorbi

9:50...10:30 Klaus Ambos-Spies *Strongly bounded Turing reducibilities*
(Heidelberg, Germany)

10:40...11:20 Iskander Kalimullin *Degree spectra of algebraic structures*
(Kazan', Russia)

Coffee break

Chairman V. F. Dobritsa

12:00...12:40 Lev Beklemishev *Provability algebras and scattered topology*
(Moscow, Russia)

12:50...13:30 Ulrich Berger *Realisability for coinduction with applications in computable analysis*
(Swansea, UK)

Lunch break

Chairman L. L. Maksimova

15:00...15:40 Salma Kuhlmann *Valued differential fields of exponential logarithmic series*
(Konstanz, Germany)

15:50...16:30 Frank Stephan *Automatic structures and model theory*
(Singapore, Singapore)

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 - *Ring theory* (344)
 - *Theoretical computer science* (417)



Mal'tsev Meeting 2010

May 6, Thursday

Conference hall

Chairman V. N. Remeslennikov

- 9:00...9:40** Alexei Miasnikov (Montreal, Canada) *Zero-one laws, generic elementary theories, and random objects*
- 9:50...10:30** Irina Suprunenko (Minsk, Belarus') *Modular representations of the classical algebraic groups: restrictions to subsystem subgroups and properties of individual elements*
- 10:40...11:20** Asylkhan Khisamiev (Novosibirsk, Russia) *Universal functions over locally finite algebraic systems*

Coffee break

Chairman N. S. Romanovskij

- 12:00...12:40** Andrej Vasil'ev (Novosibirsk, Russia) *Characterization of finite simple groups by arithmetical properties*
- 12:50...13:30** Evgenij Vdovin (Novosibirsk, Russia) *On the intersection of conjugate subgroups of finite index*

Lunch break

Chairman S. S. Goncharov

- 15:00...15:40** Andrej Mantsivoda (Irkutsk, Russia) *Mediating between logic and object models*
- 15:50...16:30** Vadim Puzarenko (Novosibirsk, Russia) *Natural numbers and the generalized computability*

Conference hall, Rooms 115, 213, 220, 344, and 417

- 16:45...19:00** Contributions in sections:
- *Theoretical computer science* (417)
 - *Group theory 2* (220)
 - *Ring theory* (344)

Conference hall

19:00

Conference closes