

**Program of  
11<sup>th</sup> International Summer School-Conference  
“Problems Allied to Universal Algebra  
and Model Theory”**

**June 23, Tuesday**

9:45am–10:00am    Opening the conference

**Plenary Talks  
Chairman A. Morozov**

10:00am–10:50am    ERSHOV YU. (Novosibirsk, Russia) “Separant of an arbitrary polynomial (application and computation)”

11:00am–11:50am    GONCHAROV S. (Novosibirsk, Russia) “On complexity of descriptions and classification of computational models ”

Noon–12:50pm        BAIZHANOV B. (Almaty, Kazakhstan) “On a construction of S. Sudoplatov: Existence of  $D$ -prime model over countable set in small theory”

1:00pm–1:50pm      SUDOPLATOV S. (Novosibirsk, Russia) “Operators on classes of algebraic systems”

1:50pm–3:00pm      **Lunch**

**Short talks  
Chairman V. Verbovskiy**

3:00pm–3:20pm      PINUS A. (Novosibirsk, Russia) “ $Ihm$ -quasiorders and derived structure of universal algebras.”

3:20–3:40            KOLESNIKOV P. (Novosibirsk, Russia) “Homogeneous conformal operators of averaging on semiprime Lie algebras”

3:40pm–4:00pm      CHURKIN V. (Novosibirsk, Russia) “Natural cones in real symplectic algebras of small dimensions”

4:10pm–4:30pm      ZENKOV A. (Barnaul, Russia) “On congruences of  $m$ -groups”

4:30pm–4:50pm      POROSHENKO E. (Novosibirsk, Russia) “Universal equivalence of partially commutative Lie algebras”

4:30pm–4:50pm      MIKHAL’CHISHINA YU. (Novosibirsk, Russia) “Invariants of virtual hitches”

**June 24, Wednesday**

**Plenary Talks  
Chairman B. Baizhanov**

10:00am–10:50am    ROMAN’KOV V. (Omsk, Russia) “On Andrews-Cartis group”

11:00am–11:50am    PALYUTIN E. (Novosibirsk, Russia) “Generalized stable abelian groups”

Noon–12:50pm        TIMOSHENKO E. (Novosibirsk, Russia) “Automorphisms and universal theories of solvable groups”

12:50pm–3:00pm    **Lunch**

### Short talks

#### Classical Algebra

Chairman V. Roman'kov

- 3:00pm–3:20pm CHEKHONADSKIKH A. (Novosibirsk, Russia) “Critical root diagrams of systems of automatic administration: recurrent building and realizability”
- 3:20pm–3:40pm PAVLYUK I. (Pavlodar, Kazakhstan) “To the theory of finite groups of odd orders”
- 3:40pm–4:00pm NASYBULLOV T. (Novosibirsk, Russia) “Almost solvability and the Rinf-property”
- 4:10pm–4:30pm CHIRKUNOV YU. (Novosibirsk, Russia) “Generalized equivalence transformations and their function when building submodels”
- 4:30pm–4:50pm

#### Universal Algebra and Model Theory

Chairman S. Sudoplatov

- BEKENOV M. (Astana, Kazakhstan) “ $B$ -algebraic systems of theories.”
- MEYREMBEKOV M. (Almaty, Kazakhstan) “On weakly minimal models”
- BAYKALOVA K. (Novosibirsk, Russia) “Distribution of countable models of theories of locally free algebras”
- POPKOV R. (Novosibirsk, Russia) “On countable models of complete theories with continual number of types”
- POBEDIN L. (Novosibirsk, Russia) “Generalized countability in classical and alternative infinity”

### *June 26, Friday*

#### Plenary Talks

Chairman V. Churkin

- 9:30am–10:20am MOROZOV A. (Novosibirsk, Russia) “Sigma-representability of structures in hereditary finite”
- 10:30am–11:20am KULPESHOV B. (Almaty, Kazakhstan) “On weak cyclic minimality”
- 11:30am–12:20pm VERBOVSKIY V. (Almaty, Kazakhstan) “Relative stability”
- 12:30pm–1:20pm SHAHRYARI M. (Tabriz, Iran) “On logically cyclic groups”
- 1:20pm–3:00pm **Lunch**

#### Short Talks

Chairman Poroshenko

- 3:00pm–3:20pm KUZNETSOV A., KUZNETSOVA A. (Krasnoyarsk, Russia) “Application of Cayley graphs of period 3 and 4 for modeling of topologies of multiprocessor computing systems”
- 3:20pm–3:40pm PUZARENKO V. (Novosibirsk, Russia) “Computable models in infinite fragments”
- 3:40pm–4:00pm GRACHEV E. POPOVA A (Novosibirsk, Russia) “Automorphisms of integer groups rings of finite groups”

### **Discussion**

4:10pm–5:10pm “DNA as the universal biological code. Analysis and transformations” with molecular biologists C. Martinez-Perez (Bremen university, Germany), D. Mayer (Bremen university, Germany) and C. Vavurakis (Amsterdam university, Netherlands.)

### **June 27, Saturday**

#### **Plenary Talks**

**Chairman A. Pinus**

10:00am–10:50am DROBOTUN B, GONCHAROV S., NIKITIN A. (Pavlodar, Kazakhstan; Novosibirsk, Russia) “To the problem of defining content of logical component in school mathematic education”

10:50am–11:10am **Closing the conference**