

Second St.Petersburg Days of Logic and Computability devoted to the centennial of ANDREY ANDREEVICH MARKOV

PROGRAM

SUNDAY, AUGUST 24

9:00- 9:55	Registration				
9:55 - 10:00	Opening				
10:00-10:45	Sergei Adian The Burnside problem on periodic groups and related topics				
10:45-11:00	Coffee break				
11:00-11:45	Andrej Muchnik, Alexei Semenov Natural Examples of Simple and Hypersimple Sets				
11:45 - 12:00	Coffee break				
12:00-12:45	Nikolai A. Shanin On Finitary Interpretations of Theorems of the Theory of Algorithms				
	and Recursively Enumerable Sets				
13:00-15:00	Lunch				
	Section 1	Section 2			
15:00-15:25	Sergei Artemov From proof polynomials to	Séverine Fratani, Géraud Sénizergues			
	reflexive combinators	Iterated Pushdown Automata and Sequences			
		of Rational Numbers			
15:25 - 15:50	Alexander Lyaletski On Efficient Quanti-	Leonid P. Lisovik Macrotransducers. Con-			
	fiers Manipulation in Gentzen's Calculi LK	tinuity and Computability			
	and LJ				
15.50 16.05	Coffee break				
10.00-10.00	Coffee oreak				
16:05-16:30	Grigori Mints An Epsilon Substitution	Anatoly Beltiukov A Nonasymptotic			
	Method for a Theory of Non-iterated Induc-	Lower Time Bound for a Strictly Bounded			
	tive Definitions	Second Order Arithmetic			
16.30 16.55	Edward A Hirsch Arist Kajavnikov	Alexandro P. Francisco Circuits of Finito			
10.30-10.33	Several Notes on the Power of Comery	Memory Retrospective Operators			
	Chystal Cuts	Memory Recospective Operators			
	Unvatar Outs				

Monday, August 25

9:00-9:45	Alexey V.	Chernavsky,	V.P.Lexin	Decision	Problems	for	Manifolds
-----------	-----------	-------------	-----------	----------	----------	-----	-----------

- 9:45–10:00 Coffee break
- 10:00–10:45 **Victor Makarov** Predicate Logic with Definitions and the General Concept of Algorithm 10:45–11:00 *Coffee break*
- 11:00–11:45 Svyatoslav Lavrov In which Form do Mathematics Foundations Exist?
- 12:00–16:30 Lunch and excursion
- 16:30–19:00 Special session dedicated to A.A.Markov
- 19:00-22:00 Meeting's party

TUESDAY, AUGUST 26

	Section 1	Section 2		
9:00- 9:25	Elena Bunina, Valeri Zakharov Universal Sets, Tarski Sets, and Inaccessible von Neumann Sets	Alexander L. Chistov Application of Mon- odromy to Constructing Linear Sections in General Position of an Algebraic Variety		
9:25- 9:50	Andreas Schumann Quasi-solvability of ω -order Predicate Calculus	Dmitri Grigoriev, Sergei Vakulenko Complexity of Patterns Generated by Ge- netic Circuits and Pfaffian Functions		
9:50-10:05	Coffee break			
10:05-10:30	P. V. Andreev, E. I. Bunina, A. V. Mi- khalev, V. K. Zakharov MacLane's Prob- lem on Foundations of Category Theory and Local Theory of Sets	Daniele Beauquier Decidable Properties for Monadic Abstract State Machines		
10:30-10:55	Sergei Tupailo On the Intuitionistic Strength of Monotone Inductive Definitions	S. Baranov, J. Kapitonova, V. Kotlya- rov, A. Letichevsky Message Sequence Charts as a Model of Computation		
10:55-11:10	Coffee break			
11:10-11:35	Olivier Hermant A Model Based Cut Elimination Proof	Masahide Kashiwagi, Shinya Miyajima On the Application of the Best Multiplica- tion to Division in Affine Arithmetic		
11:35-12:00	Alexandre Lyaletsky (Jr.) On the No- tion of Efficiency of Formal Systems from the Point of View of Inference Search Problems	Nikolaj S. Nikitchenko, Stepan S. Shkilniak Compositional Logics and Ab- stract Computability over Nominative Data		
12:00-14:00	Lunch			
14:00-15:25	David Chemouil, Sergei Soloviev Ex- tensional Isomorphisms of Inductive Types in Simply-Typed Lambda-Calculus	Su Gao, Yi Zhang Definable Sets of Generators in Maximal Cofinitary Groups		
14:25-15:50	Dan E. Willard A Generalization of the Second Incompleteness Theorem and Some Exceptions to It	Michael Dekhtyar, Alexander Dikov- sky, Mars Valiev Complexity of Asyn- chronous Behavior of Multi-Agent Systems		
14:50-15:05	Coffee break			
15:05-15:30	Lew Gordeev, Andreas Krebs Elementary Interpretations of $P < NP$	Nikolai Kossovski, Tatiana Kossov- skaya About Complexity of Constant Mod- ulo Arithmetic		