

Plenary talks

Samson Abramsky

Relating Structure and Power: a junction between categorical semantics, model theory and descriptive complexity

Zoé Chatzidakis

Notions of difference closures of difference fields

Oswaldo Guzman

The ultrafilter and almostdisjointness numbers

Matthew Harrison-Trainor

Describing countable structures

Ulrich Kohlenbach

Local proof-theoretic foundations, proof-theoretic tameness and proof mining

Jan Krajíček

Model theory and proof complexity

Hannes Leitgeb

Ramsification and Semantic Indeterminacy

Dilip Raghavan

Higher cardinal invariants.

Michael Rathjen

Well-ordering principles in proof theory and reverse mathematics

Gil Sagi

Logic and natural language: commitments and constraints

Thomas Scanlon

Over six decades of the model theory of valued fields

Rineke Verbrugge

Zero-one laws for provability logic and some of its siblings

Martin Ziegler

Logic of Computing with Continuous Data: Foundations of Numerical Software Engineering

Invited Session talks

Set Theory

Heike Mildenberger, Saharon Shelah

Generalised Miller forcing may collapse cardinals

Daniel T. Soukup

Through the lense of uniformization

Andy Zucker

Bernoulli disjointness

Yair Hayut

Stationary Reflection at the successor of a singular cardinal

Model Theory

Philip Dittmann

Models of the common theory of algebraic extensions of the rational numbers

Ayse Berkman

Sharp actions of groups in the finite Morley rank context

Francesco Parente

Model-theoretic properties of ultrafilters and universality of forcing extensions

Angus Macintyre

Model theory of adeles. Arithmetic equivalence

Reflection Principles and Modal Logic

Fedor Pakhomov

A weak set theory that proves its own consistency

Albert Visser

Löb's logic and the Lewis arrow

Emil Jeřábek

Arithmetical and propositional reflection principles

Ali Enayat

Some recent news about truth theories

Proof Theory and Proof Complexity

Pedro Pinto

Proof mining with the bounded functional interpretation

Sara Negri

Syntax for semantics

Bahareh Afshari

An infinitary treatment of fixed point modal logic

Neil Thapen

Induction, search problems and approximate counting

Thomas Powell

A new application of proof mining in the fixed point theory of uniformly

convex Banach spaces

Olaf Beyersdorff

Proof complexity of quantified Boolean formulas

Computability

Laurent Bienvenu, Barbara Csimma, Matthew Harrison-Trainor

Some questions of uniformity in algorithmic randomness

Denis Hirschfeldt

Computability theory, reverse mathematics, and Hindman's Theorem

Noah Schweber

More effective cardinal characteristics

Wesley Calvert, Douglas Cenzer, Valentina Harizanov

Approximately computable equivalence structures

Foundations of Geometry

Gianluca Paolini

First-order model theory of free projective planes

John Mumma

Diagrams and parallelism

Michael Beeson

On the notion of equal figures in Euclid

Pierre Boutry

Towards an independent version of Tarski's system of geometry

Contributed talks

This list contains accepted talks where at least one author has already

registered for the colloquium.

Click on a title to show the abstract.

Set Theory

Borisa Kuzeljević

Antichains of copies of ultrahomogeneous structures

Dorottya Sziráki

Perfect sets and games on generalized Baire spaces

Evgeny Gordon

On extension of Haar measure in $\sigma\sigma$ -compact groups

Jaroslav Šupina

Cardinal invariants and ideal convergence

John Howe

Ramsey degrees of structures with equivalence relations

Maxwell Levine

Singular Cardinals of Uncountable Cofinality

Frode A. Bjordal

Capture and Array – Replacement, Specification and Choice

Joanna Jureczko

New results on partitioner-representable algebras

Sourav Tarafder

Foundations of mathematics in a model of paraconsistent set theory

Model Theory

A.R. Yeshkeyev, A.K. Issayeva

The principle of a "rheostat of atomicity" in the study of AAP models

Aleksander Iwanow

Pseudocompact unitary representations of finitely generated groups

Christian Espindola

Preservation theorems for strong first-order logics

David Bradley-Williams

Canonical invariants for t -stratifications

Sergey Davidov, Senik Alvrtsyan, Davit Shahnazaryan

Invertible binary algebras principally isotopic to a group

Hiroataka Kikyo

On automorphism groups of Hrushovski's pseudoplanes in rational cases

Rosario Mennuni

Product of invariant types modulo domination-equivalence

Sebastien Vasey

Forking and categoricity in non-elementary model theory

Dmitry Emelyanov, Beibut Kulpeshov, Sergey Sudoplatov

On compositions of structures and compositions of theories

Inessa Pavlyuk, Sergey Sudoplatov

On ranks for families of theories of finite abelian groups

Thomas Kucera, Marcos Mazari-Armida

On universal modules with pure embeddings

Junguk Lee, Daniel Max Hoffmann

Elementary theories of PAC structures via Galois groups

Michael Lieberman, Jiří Rosický, Sebastien Vasey

Weak factorization systems and stable independence

A.R. Yeshkeyev, N.M. Mussina

Hybrids of classes from Jonsson spectrum

Pedro H. Zambrano

Tameness in classes of generalized metric structures: quantale-spaces, fuzzy sets, and sheaves

Miguel Campercholi

Dominions in filtral quasivarieties

Reflection Principles and Modal Logic

A. V. Ravishankar Sarma

Belief revision based on abductive reasoning

Tadeusz Litak

Algebras for preservativity

Larisa Maksimova, Veta Yun

On strong recognizability of the intuitionistic logic

Emanuele Frittaion

The uniform reflection principle in second order arithmetic

Amirhossein Akbar Tabatabai

The BHK interpretation: looking through Gödel's classical lens

Mahfuz Rahman Ansari, A V Ravishankar Sarma

Constraints on selection function: A critique of Lewis-Stalnakers semantics for counterfactuals

Taishi Kurahashi

Derivability conditions and the second incompleteness theorem

Luciana Garbayo

Dependence logic & medical guidelines disagreement: an informational (in)dependence analysis

Proof Theory and Proof Complexity

Andrzej Indrzejczak

Admissibility of Cut for Sequent Calculus related to nn -labelled Tableaux

Annika Kanckos

Gentzen's tentative views on constructivism

Anahit Chubaryan, Artur Khamisyan

On the proof complexity in two universal proof system for all versions of many-valued logics

Franco Parlamento, Flavio Previale, Federico Munini

The subterm property for some equality sequent calculi

Anahit Chubaryan, Garik Petrosyan, Sergey Sayadyan

Monotonous and strong monotonous properties of some propositional proof systems for Classical and Non Classical Logics

Iris van der Giessen

Intuitionistic provability logic

Luiz Carlos Pereira, Edward Hermann Haeusler

New ecumenical systems

Amirhossein Akbar Tabatabai, Raheleh Jalali

On the logical implications of proof forms

Satoru Kuroda

On Takeuti-Yasumoto forcing

Toshiyasu Arai

Some results in proof theory

Yong Cheng

The limit of incompleteness for Weak Arithmetics

José Espírito Santo, Gilda Ferreira

*An embedding of **IPC** into \mathbf{F}_{at} not relying on instantiation overflow*

Marta Gawek, Agata Tomczyk

Translation of Sequent Calculus into Natural Deduction for Sentential Calculus with Identity

Computability

Giovanni Soldà

Reverse Mathematics of some principles related to partial orders

Julia Knight, Alexandra Soskova, Stefan Vatev

Effective coding and decoding structures

Alexey Ryzhkov, Alexey Stukachev, Marina Stukacheva

Interval semantics for natural languages and effective interpretability over the reals

Damir Zainetdinov

Limitwise monotonic reducibility of sets and $\Sigma\Sigma$ -definability of abelian groups

Ilya Vlasov

On enumerations of families of sets of computable elements of metric spaces

Nikolay Bazhenov, Dino Rossegger, Luca San Mauro, Maxim Zubkov

On bi-embeddable categoricity of linear orders

Natalia Korneeva

Prefix decidable infinitewords for natural subsets of the set of context-free languages

Nikolay Bazhenov, Manat Mustafa, Mars Yamaleev

Computable reducibility, and isomorphisms of distributive lattices

Patrick Lutz, James Walsh

Descending sequences of hyperdegrees and the second incompleteness theorem

Rumen Dimitrov, Valentina Harizanov, Andrey Morozov, Paul Shafer,

Alexandra Soskova, Stefan Vatev

Cohesive powers of $\omega\omega$

Manat Mustafa, Sergey Ospichev

About Rogers semilattices of finite families in Ershov hierarchy

Nikolay Bazhenov, Hristo Ganchev, Stefan Vatev

Computable embeddings for pairs of linear orderings

Svetlana Aleksandrova, Nikolay Bazhenov

On $\Sigma_n^0 - \Sigma_n^0$ – classifications

Foundations of Geometry

David Pierce

Apollonian proof

Davit Harutyunyan, Aram Nazaryan, Victor Pambuccian

The Hajja–Martini inequality in a weak absolute geometry

Marlena Fila, Piotr Blaszczyk

Limits of diagrammatic reasoning

Piotr Blaszczyk

Axioms for Euclid's Elements book V, their consequences and some independence results

Tatyana Ivanova, Tinko Tinchev

First-order theory of lines in Euclidean plane

Philippe Balbiani, Tinko Tinchev

Computability of contact logics with measure

General

Andrei Sipos

Bounds on strong unicity for Chebyshev approximation with bounded coefficients

Guillermo Badia, Petr Cintula, Andrew Tedder

How much propositional logic suffices for Rosser's undecidability theorem?

Bartosz Wcisło

Remarks on satisfaction classes and recursive saturation

Joseph Boudou, Martín Diéguez, David Fernández-Duque

A Complete Intuitionistic Temporal Logic for Topological Dynamics

Thomas Macaulay Ferguson, Elisangela Ramirez-Camara

The Limit of the Strict-Tolerant Hierarchy is Essentially Classical and Even If It's Just LP, That's Probably Okay.

Francisco Martinez Herrera

Justifications and the Lewis argument on ECQ: a relevant note

Harold Hodes

Ramified-types for states of affairs

Igor Sedlár

Fixpoints in generalized Lambek calculus

Andrey Morozov, Jamalbek Tussupov

On minimal elements in the $\Delta\Delta$ -reducibility on families of predicates

James Appleby

Resolving Two Paradoxes About Knowledge States in the Foundations of Intuitionistic Analysis

Jan Hubička, Matěj Konečný, Jaroslav Nešetřil

On Hrushovski properties of Hrushovski constructions

Johan Lindberg

Constructive semantics and the Joyal-Tierney representation theorem

John Baldwin

On strongly minimal Steiner systems: Zilber's conjecture, universal algebra, and combinatorics

Joost Joosten

Hyperarithmetical Turing progressions

José M. Méndez, Gemma Robles, Francisco Salto

Falsity constants for two independent families of quasi-Boolean logics

Libor Behounek

Non-monotonic abstract multiset consequence relations

Michał Tomasz Godziszewski, Dino Rossegger, Luca San Mauro

Quotient presentations of structures

Luis Estrada-González, Claudia, Lucía Tanús-Pimentel

Content-sharing in relevant mathematics

Ludovica Conti

One or more Logicisms

Vedran Čačić, Marko Doko, Marko Horvat

Rearranging absolutely convergent well-ordered series in Banach spaces

Marta Vlasáková

Frege's attitude towards sets

David M. Evans, Jan Hubička, Matěj Konečný, Yibei Li

Simplicity of automorphism groups of generalised metric spaces

Mateusz Łełyk

*Nonequivalent axiomatizations of **PAPA** and the Tarski Boundary*

Meha Mishra, A.V. Ravishankar Sarma

An inconsistency tolerant paraconsistent deontic logic of moral conflicts

Noah Schoem

Destruction of ideal saturation

Oguz Korkmaz

Belief as a quantum bit

Pavel Arazim

Logical systems as pedagogical and perhaps existential games

Ranjan Mukhopadhyay

Cut elimination and Restall's defining rules

Robert Lubarsky

Feedback hyperjump

Ryota Akiyoshi, Andrew Arana

On Gaisi Takeuti's philosophy of mathematics

Ryszard Mirek

Euclidean Geometry

Sena Bozdog

A hyperintensional and paraconsistent approach to belief dynamics

Sergey Drobyshevich, Sergei Odintsov

Towards a classification of algebraizable FDE-based modal logics

Tomáš Jakl

On connections between logic on words and limits of graphs

Vedran Čačić, Egor V. Kostylev, Juan L. Reutter, Domagoj Vrgoč

Complexity of some fragments of description logics

Joachim Mueller-Theys

Multi-valued interpretations

Paolo Baldi, Petr Cintula, Carles Noguera

On classical and fuzzy two-layered modal logics for uncertainty: translations and proof-theory

Alice Medvedev, Alexander Van Abel

The Feferman-Vaught Theorem and products of finite fields

Alexandre Madeira, Manisha Jain, Manuel Martins

Towards Invariant bisimulations for parametric multi-valued dynamic logics

Andreas Weiermann

A unifying approach to Goodstein principles

Jaroslav Petik

Reading Feyerabend: from epistemic anarchism to anarchism in foundations of formal systems

Mattias Granberg Olsson, Graham Leigh

Partial conservativity of $\widehat{\mathbf{ID}}_1^i \wedge i$ over Heyting arithmetic via realizability.

Michael Stephen Fiske

Quantum Random Self-Modifiable Computation

Ricardo Nicolás

Negation can be just what it has to

Satoru Niki, Peter Schuster

On Scott's semantics for many-valued logic

Alan Antezana

A class of axiomatic systems based on an actuality operator

Anna Glenszczyk

Intuitionistic control logic: an overview

Grzegorz Sitek

Mereological model of arithmetic of natural and real numbers

Marija Boričić

Suppes--style natural deduction system for classical logic

Tomasz Polacik

Archetypal Rules: Beyond Classical Logic

Andrés Aranda, David Hartman

MB-homogeneous graphs

Ilya Shapirovsky

Satisfiability problems on sums of Kripke frames

Sam Sanders

Umpteen parallel hierarchies and the Gödel hierarchy

Sam van Gool

Monadic second order logic as a model companion

Martin Maxa

Feasible incompleteness

Program Committee

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