

Mon, 23 June 2025		Tues, 24 June 2025		Wed, 25 June 2025		Thurs, 26 June 2025		
Time	Seminar Room 1	Seminar Room 3	Seminar Room 1	Seminar Room 3	Seminar Room 1	Seminar Room 3	Foyer	Seminar Room 1
08:30	Registration - Foyer		Registration - Foyer		Registration - Foyer			Registration
9:00 to 10:00	Invited Talk: Anuj Dawar		Invited Talk (tutorial): Rustan Leino		Invited Talk: Hongseok Yang			Invited talk (tutorial): Christine Tasson
10:00 to 10:40	Tea Break		Teabreak		Tea Break			Tea Break
10:40 to 11:00	Andrei Popescu. Completing Gordori's Higher-Order Logic	Logic Mentoring	Johannes Kloibhofer and Yde Venema. Interpolation for the two-way modal $\mu$ -calculus	Qiaolan Meng, Juhua Pu, Hongting Niu, Yuyi Wang, Yuanhong Wang and Ondřej Kuzelka. Model Enumeration of Two-Variable Logic with Quadratic Delay Complexity	Thomas Brihaye, Krishnendu Chatterjee, Stefanie Mohr and Maximilian Weisinger. Risk-aware Markov Decision Processes Using Cumulative Prospect Theory	Timothy Bourke, Paul Jeanmaire and Marc Pouzet. Functional Stream Semantics for a Synchronous Block-Diagram Compiler		Anton Chervnev, Corina Cirstea, Helle Hvid Hansen and Clemens Kupke. Thin Coalgebraic Behaviours Are Inductive
11:00 to 11:20	Liron Cohen, Ariel Grunfeld, Dominik Kirst, Étienne Miquey and Ross Tate. Syntactic Effectful Realizability in Higher-Order Logic		Jim de Groot, Ian Shillito and Ranald Clouston. Semantical Analysis of Intuitionistic Modal Logics between CK and IK	Thomas Place and Marc Zeitoun. Navigational hierarchies of regular languages	Dario Stein. Random Variables, Conditional Independence and Categories of Abstract Sample Spaces	A. R. Balasubramanian, Dmitry Chistikov and Rupak Majumdar. Pushdown Model Checking above the Cubic Bottleneck		Sergey Goncharov, Dirk Hofmann, Pedro Nora, Lutz Schröder and Paul Wild. Relators and Notions of Simulation Revisited
11:20 to 11:40	Max Bannach, Erik D. Demaine, Timothy Gomez and Markus Hecher. $\#P$ is Sandwiched by One and Two $\#2DNF$ Calls: Is Subtraction Stronger Than We Thought?		Victoria Barnett, Alessio Guglielmi, Benjamin Ralph and Lutz Straßburger. Proof Compression via Subatomic Logic and Guarded Substitutions	Louise B. Kuijjer, Tony Tan, Frank Wolter and Michael Zakhar'yevich. Separation and Definability in Fragments of Two-Variable First-Order Logic with Counting	Nathan Bowler, Sergey Goncharov and Paul Blain Levy. Probabilistic Strategies: Definability and the Tensor Completeness Problem	Jasmine Xuebei, Adrian Francalanza and Antonios Achilleos. If At First You Don't Succeed: Extended Monitorability through Multiple Executions		Paul Wild and Lutz Schröder. Behavioural Conformances based on Lax Couplings
11:40 to 12:00	Mikhail Starchak. Quantifier Elimination for Regular Integer Linear-Exponential Programming		Sanjiv Ranchood and Marcelo Fiore. Substructural Abstract Syntax with Variable Binding and Single-Variable Substitution	Sam M. Thompson, Nicole Schweikardt and Dominik D. Freydenberger. Characterisation and Decidability of FC-Definable Regular Languages	Christel Baier, Krishnendu Chatterjee, Tobias Meggendorfer and Jakob Piribauer. Multiplicative Rewards in Markovian Models	Edon Kelmemendi, Joel Quakine, James Worrell and Toghru Karimov. Multiple Reachability in Linear Dynamical Systems		Lorenzo Clemente. The commutativity problem for effective varieties of formal series, and applications
12:00 to 13:30	Lunch		Lunch		Lunch			Lunch
13:30 to 13:50	Florian Frank, Daniel Hausmann, Stefan Milius, Lutz Schröder and Henning Urbat. Alternating Nominal Automata with Name Allocation	Logic Mentoring	Aleksi Tiurin, Dan Ghica and Nick Hu. Equivalence Hypergraphs: DPO Rewriting for Monoidal E-Graphs	Antoine Mottet. Algebraic and algorithmic synergies between promise and infinite-domain CSPs	Pierre Clairambault. The Qualitative Collapse of Concurrent Games	Jan Dreier, Robert Ganian and Theda Hamm. Approximate Evaluation of Quantitative Second Order Queries		Sam Adam-Day, Michael Benedikt and Alberto Larrauri. Convergence laws for extensions of first order logic with averaging
13:50 to 14:10	Mayuko Kori, Kazuki Watanabe and Jurriaan Rot. Initial Algebra Correspondence under Reachability Conditions		Mirai Ikebuchi. Homological Invariants of Higher-Order Equational Theories	Demian Banach, Lorenzo Ciardo, Marcin Koźka and Jan Tulowiecki. Classical simulation of quantum CSP strategies	Benedict Bunting and Andrej Murawski. Reachability Types, Traces and Full Abstraction	Mamadou Moustapha Kanté, Bruno Gouillon, Eun Jung Kim, Sang-Ho Um and Rutger Campbell. Recognisability Equals Definability for <u>Finite</u> <u>Benzenesetable</u> <u>Matroids</u> of <u>Bounded</u> <u>Path-Width</u>		Jakub Gajarský, Michal Pilipczuk and Filip Pokrýška. 3D-grids are not transducible from planar graphs
14:10 to 14:30	Thomas Ehrhard, Farzad Jafarrahmani and Alexis Saurin. On the denotation of circular and non-wellfounded proofs in linear logic with fixed points		Anatole Dahan. Group Order Logic	Paolo Marimon and Michael Pinsker. Binary symmetries of tractable non-rigid structures	Filippo Bonchi, Elena Di Lavoura and Mario Román. Effectful Mealy Machines: Bisimulation and Trace	Marius Bozga, Radu Iosif and Florian Zuleger. Regular Grammars for Sets of Graphs of Tree-Width 2		Petr Hliněný and Jan Jendryšek. Transductions of Graph Classes Admitting Product Structure
14:30 to 14:50	Mishel Carelli, Bernd Finkbeiner and Julian Siber. Closure and Complexity of Temporal Causality	Ruiwen Dong and Corentin Bodart. The Identity Problem in virtually solvable matrix groups over algebraic numbers	Johanna Brunar, Marcin Koźka, Tomáš Nágý and Michael Pinsker. The sorrows of a smooth digraph: the first hardness criterion for infinite-directed graph-colouring problems	Jonas Forster, Lutz Schröder and Paul Wild. Conformance Games for Graded Semantics	Mikołaj Bojańczyk and Pierre Ohlmann. Graphs of unbounded linear cliquewidth must transduce all trees		Wojciech Przybyszewski and Szymon Toruńczyk. Flipping and Forking	
14:50 to 15:30	Tea Break		Teabreak		Tea Break			Tea Break
15:30 to 15:50	Niels van der Weide. The internal languages of univalent categories	Logic Mentoring	Tom de Jong, Nicolai Kraus, Fredrik Nordvall Forsberg and Chuangjie Xu. Ordinal Exponentiation in Homotopy Type Theory	Quentin Aristote, Sam van Gool, Daniela Petrisan and Mahsa Shirmohammadi. Learning Weighted Automata over Number Rings, Concretely and Categorically	Marta Grobelna, Jan Kretinsky and Maximilian Weisinger. Stopping Criteria for Value Iteration on Concurrent Stochastic Reachability and Safety Games	Leoni Pugh and Jonathan Sterling. When is the partial map classifier a Sierpiński cone?		Bert Lindenhovius and Vladimir Zamdzhiev. Operator Spaces, Linear Logic and the Heisenberg-Schrödinger Quality of Quantum Theory
15:50 to 16:10	Daniel Gratzer, Jonathan Weinberger and Ulrik Buchholtz. The Yoneda embedding in simplicial type theory		Thibaut Benjamin, Ioannis Markakis, Wilfred Offord, Chiara Sarti and Jamie Vicary. Naturality for higher-dimensional path types	Christof Löding and Igor Walukiewicz. Minimal History-Deterministic Co-Büchi Automata: Congruences and Passive Learning	Roland Guttenberg, Wojciech Czerwinski and Sławomir Lasota. Reachability and Related Problems in Vector Addition Systems with Nested Zero Tests	Pedro H. Azevedo de Amorim, Satoshi Kura and Philip Saville. Logical relations for all-by-push-value models, via internal fibrations in a 2-category		Gilles Barthe, Minbo Gao, Theo Wang and Li Zhou. Complete Quantum Relational Hoare Logics from Optimal Transport Duality
16:10 to 16:30	Andrew Slattery and Jonathan Sterling. Hofmann–Streicher Lifting of Fibred Categories		Axel Ljungström and David Wärn. The Steenrod squares via unordered joins	Prince Mathew, Vincent Penelle and A V Sreejith. Learning Deterministic One-Counter Automata in Polynomial Time	Yousef Shakiba, Henry Sinclair-Banks and Georg Zetsche. A Complexity Dichotomy for Semilinear Target Sets in Automata with One Counter	Amyeric Walch. Compositional Taylor expansion in cartesian differential categories		Dominik Kirst and Haoyi Zeng. The Buried Drinker Paradox: Constructive Reverse Mathematics of the Downward Löwenheim-Skolem Theorem
16:40 to 17:40	Business Meeting		Awards Session		Poster Session in Foyer			
18:00	Reception @ SoC				18:30 - Banquet Dinner (NUSS Guild Hall)			