

## Monday

9:00-10:00	Invited talk: Nicole Schweikardt
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10:30-12:30	Finite model theory & Counting logic	Higher-order logic & Proof theory
	On the Power of Symmetric Linear Programs. <i>Albert Atserias, Anuj Dawar and Joanna Ochremiak</i>	HoCHC: A Refutationally Complete and Semantically Invariant System of Higher-order Logic Modulo Theories. <i>C.-H. Luke Ong and Dominik Wagner</i>
	Canonisation and Definability for Graphs of Bounded Rank Width. <i>Martin Grohe and Daniel Neuen</i>	LambdaY-calculus with priorities. <i>Igor Walukiewicz</i>
	Walk refinement, walk logic, and the iteration number of the Weisfeiler-Leman algorithm. <i>Moritz Lichter, Iliia Ponomarenko and Pascal Schweitzer</i>	A Type Theory for Defining Logics and Proofs. <i>Brigitte Pientka, David Thibodeau, Andreas Abel, Francisco Ferreira and Rebecca Zucchini</i>
	Learning Concepts Definable in First-Order Logic with Counting. <i>Steffen van Bergerem</i>	Intuitionistic Proofs Without Syntax. <i>Willem Heijltjes, Dominic Hughes and Lutz Straßburger</i>

14:00-15:30	Probabilistic programming	Homotopy theory
	Type-Based Complexity Analysis of Probabilistic Functional Programs. <i>Martin Avanzini, Alexis Ghyselen and Ugo Dal Lago</i>	Template games and differential linear logic. <i>Paul-André Melliès</i>
	Lambda Calculus and Probabilistic Computation - A foundational approach. <i>Claudia Faggian and Simona Ronchi Della Rocca</i>	High-level methods for homotopy construction in associative n-categories. <i>David Reutter and Jamie Vicary</i>
	On the Termination Problem for Probabilistic Higher-Order Recursive Programs. <i>Naoki Kobayashi, Ugo Dal Lago and Charles Grellois</i>	Path Spaces of Higher Inductive Types in Homotopy Type Theory. <i>Nicolai Kraus and Jakob von Raumer</i>

16:00-17:00	Verification	Category theory and learning
	Bisimulation Equivalence of First-Order Grammars is ACKERMANN-Complete. <i>Petr Jančar and Sylvain Schmitz</i>	Differentiable Causal Computations via Delayed Trace. <i>David Sprunger and Shin-Ya Katsumata</i>
	On the Existential Theories of Büchi Arithmetic and Linear p-adic Fields. <i>Florent Guépin, Christoph Haase and James Worrell</i>	Backprop as Functor: A compositional perspective on supervised learning. <i>Brendan Fong, David I. Spivak and Remy Tuyeras</i>

## Tuesday

9:00-10:00	Invited talk: Peter Selinger
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10:30-12:00	Quantum computing	Description and Horn logics
	Quantum channels as a categorical completion. <i>Mathieu Huot and Sam Staton</i>	Model Comparison Games for Horn Description Logics. <i>Jean Christoph Jung, Fabio Papacchini, Frank Wolter and Michael Zakharyashev</i>
	Categorical Semantics for Time Travel. <i>Nicola Pinzani, Stefano Gogioso and Bob Coecke</i>	When is Ontology-Mediated Querying Efficient? <i>Pablo Barceló, Cristina Feier, Carsten Lutz and Andreas Pieris</i>
	A comonadic view of simulation and quantum resources. <i>Samson Abramsky, Rui Soares Barbosa, Martti Karvonen and Shane Mansfield</i>	Descriptive complexity for minimal time of cellular automata. <i>Étienne Grandjean and Théo Grente</i>

13:30-15:30	Invited tutorial: Andrei Bulatov
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16:00-17:00	Category theory	Verification
	Describing free $\omega$ -categories. <i>Simon Forest and Samuel Mimram</i>	Reachability in Vector Addition Systems is Primitive-Recursive in Fixed Dimension. <i>Jérôme Leroux and Sylvain Schmitz</i>
	A Sequent Calculus for Opetopes. <i>Pierre-Louis Curien, Cédric Ho Thanh and Samuel Mimram</i>	Presburger arithmetic with stars, rational subsets of graph groups, and nested zero tests. <i>Christoph Haase and Georg Zetsche</i>

## Wednesday

9:00-11:00	Invited tutorial: Daniela Petrisan	
11:30-12:30	<b>Category theory</b>	<b>Modal and temporal logics</b>
	Codensity Games for Bisimilarity. <i>Yuichi Komorida, Shin-Ya Katsumata, Nick Hu, Bartek Klin and Ichiro Hasuo</i>	Why propositional quantification makes modal logics on trees robustly hard? <i>Bartosz Bednarczyk and Stéphane Demri</i>
	No-Go Theorems for Distributive Laws. <i>Maaïke Zwart and Dan Marsden</i>	The Hierarchy of Hyperlogics. <i>Norine Coenen, Bernd Finkbeiner, Christopher Hahn and Jana Hofmann</i>
14:00-15:30	<b>Probabilistic programming</b>	<b>Constraint satisfaction problems</b>
	The Theory of Traces for Systems with Probability and Nondeterminism. <i>Filippo Bonchi, Ana Sokolova and Valeria Vignudelli</i>	Point-width and Max-CSPs. <i>Clément Carbonnel, Miguel Romero and Stanislav Živný</i>
	A Probabilistic and Non-Deterministic Call-by-Push-Value Language. <i>Jean Goubault-Larrecq</i>	Promises Make Finite (Constraint Satisfaction) Problems Infinitary. <i>Libor Barto</i>
	The Geometry of Bayesian Programming. <i>Ugo Dal Lago and Naohiko Hoshino</i>	Topology is relevant (in the infinite domain dichotomy conjecture for constraint satisfaction problems). <i>Manuel Bodirsky, Antoine Mottet, Miroslav Olšák, Jakub Opršal, Michael Pinsker and Ross Willard</i>
16:00-17:00	<b>Type theory</b>	<b>Dynamic logic and applications</b>
	A type theory for cartesian closed bicategories. <i>Marcelo Fiore and Philip Saville</i>	Timed systems through the lens of logic. <i>S. Akshay, Paul Gastin, Vincent Jugé and Krishna S</i>
	Higher-Kinded Data Types: Syntax and Semantics. <i>Patricia Johann and Andrew Polonsky</i>	Completeness for Game Logic. <i>Sebastian Enqvist, Helle Hvid Hansen, Clemens Kupke, Johannes Marti and Yde Venema</i>
17:10-19:00	Award ceremony + business meeting	

## Thursday

9:00-10:00	Invited talk: James Worrell
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10:30-12:30	Quantitative verification & Games	Quantum computing
	Perspective Games. <i>Orna Kupferman and Gal Vardi</i>	A Near-Optimal Axiomatisation of ZX-Calculus for Pure Qubit Quantum Mechanics. <i>Renaud Vilmart</i>
	Long-run satisfaction of path properties. <i>Christel Baier, Nathalie Bertrand, Jakob Piribauer and Ocan Sankur</i>	A Generic Normal Form for ZX-Diagrams and Application to the Rational Angle Completeness. <i>Emmanuel Jeandel, Simon Perdrix and Renaud Vilmart</i>
	MSO+nabla is undecidable. <i>Mikołaj Bojańczyk, Edon Kelmendi and Michał Skrzypczak</i>	Realizability in the Unitary Sphere. <i>Alejandro Díaz-Caro, Mauricio Guillermo, Alexandre Miquel and Benoît Valiron</i>
	Graph Planning with Expected Finite Horizon. <i>Krishnendu Chatterjee and Laurent Doyen</i>	Quantum Hoare Logic with Ghost Variables. <i>Dominique Unruh</i>

14:00-15:30	Automata theory & Algebra	Probabilistic reasoning & Security
	The logic of action lattices is undecidable. <i>Stepan Kuznetsov</i>	Probabilistic Relational Reasoning via Metrics. <i>Arthur Azevedo de Amorim, Marco Gaboardi, Justin Hsu and Shin-Ya Katsumata</i>
	Block products for algebras over countable words and applications to logic. <i>Bharat Adsul, Saptarshi Sarkar and A. V. Sreejith</i>	Algorithmic barriers to representing conditional independence. <i>Nathanael Ackerman, Jeremy Avigad, Cameron Freer, Daniel Roy and Jason Rute</i>
	Separation and covering for group based concatenation hierarchies. <i>Thomas Place and Marc Zeitoun</i>	Approximate Span Liftings: Compositional Semantics for Relaxations of Differential Privacy. <i>Tetsuya Sato, Gilles Barthe, Marco Gaboardi, Justin Hsu and Shin-Ya Katsumata</i>

16:00-17:00	Modal logics	Category theory
	History-dependent nominal mu-calculus. <i>Bartek Klin and Clovis Eberhart</i>	Graphical Affine Algebra. <i>Filippo Bonchi, Robin Piedeleu, Pawel Sobocinski and Fabio Zanasi</i>
	Matching mu-Logic. <i>Xiaohong Chen and Grigore Rosu</i>	The convex hull of finitely generable subsets and its predicate transformer. <i>Mohammad Javad Davari, Abbas Edalat and Andre Lieutier</i>