

Conference Schedule

Topology, Algebra, and Categories in Logic

27–31 July 2026 ▪ Kraków, Poland

Week at a glance

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00–10:00	Andrew Moshier	Wesley Fussner	Valeria de Paiva	Serafina Lapenta	Tadeusz Litak
10:00–10:30	Coffee	Coffee	Coffee	Coffee	Coffee
10:30–12:10	Contributed	Contributed	Contributed	Contributed	Contributed
12:10–14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00–15:00	Marco Abbadini	Anna Laura Suarez	George Metcalfe	Dirk Hofmann	Marcus Tressl
15:00–15:30	Coffee	Coffee	Coffee	Coffee	Coffee
15:30–16:35	Contributed	Contributed	Excursion	Contributed	
16:35–16:50	Break	Break		Break	
16:50–17:55	Contributed	Contributed		Contributed	
18:00–19:00		Discussion			
	20:00 Reception			19:00 Conference Dinner	

Time	Parallel session 1 Room 1	Parallel session 2 Room 2	Parallel session 3 Room 3	Parallel session 4 Room 4	Parallel session 5 Room 5
08:00–08:50	Registration				
08:50–09:00	Opening				
	Chair: Nick Galatos				
09:00–10:00	INVITED LECTURE Andrew Moshier Relations in order-enriched categories				
10:00–10:30	Coffee break				
	Chair: Nick Galatos	Chair: Guillaume Massas	Chair: Ivan Tomasic	Chair: Marcus Tressl	Chair: Krzysztof Krawczyk
10:30–11:00	#99 On the structure of involutive partially ordered monoids as models of multiplicative fragments of linear logic Marta Bilkova, Peter Jipsen and Melissa Sugimoto	#33 Many-Valued Coalgerbaic Lindstrom’s Theorem Chun-Yu Lin	#32 Homological Algebra in Abelian Framed Bicategories Augustin Albert, Jérémy Dubut and Eric Goubault		#14 Semi-divisible rings Chancelle Kamga, Celestin Lele, Jean Nganou and Lutz Strungmann. Presenter: Jens Koetters
11:05–11:35	#130 Partially-ordered Płonka sums of po-algebras José Gil-Férez, Peter Jipsen and Giuseppe Zecchini	#3 Interpolation in bi-intuitionistic logics Rodrigo Nicolau Almeida and Qian Chen	#61 Constructing the Object of Bialgebras in a 2-Category with PIE-Limits David Forsman	#71 The lattice of smooth sublocales as a Brunsw-Lakser completion Igor Arrieta and Anna Laura Suarez	#21 Algebraic Semantics for First-Order Relevant Logics Nicholas Ferenz, Andrew Tedder and Max Lin
11:40–12:10	#2 Layer decomposition for balanced residuated partially ordered semigroups Sándor Jenei	#16 A Duality Theorem for Constructive K Jim de Groot, Ian Shillito and Ranald Clouston	#123 Towards a 2-categorical logic of dependent type theory Guido Boccali	#79 Generalizing the d-nucleus to stably continuous frames Sebastian Melzer, Guram Bezhanishvili, Papiya Bhattacharjee and Drew Moshier	#53 Closure l-monoids and their proof theory Ludovico Fusco
12:10–14:00	Lunch break				
	Chair: Luca Spada				
14:00–15:00	INVITED LECTURE Marco Abbadini On the symmetry behind duality				
15:00–15:30	Coffee break				
	Chair: Adam Prenosil	Chair: Rodrigo Nicolau Almeida	Chair: Luca Spada	Chair: Dirk Hoffman	Chair: Sérgio Marcelino
15:30–16:00	#85 Bunched implication logic is undecidable Nikolaos Galatos, Peter Jipsen, Søren Brinck Knudstorp and Revantha Ramanayake	#22 Knowledge on a Budget Ondrej Majer, Krishna Manoorkar, Wolfgang Poiger and Igor Sedlár	#63 A representation theory of arboreal categories Tomáš Jakl and Luca Reggio		#15 Introduction to the model theory of modules Grzegorz Pastuszak
16:05–16:35	#143 The Deducibility Problem for Certain Extensions of the Full Non-Associative Lambek Calculus is Undecidable Nick Galatos and August Sangalli	#27 Interpolation in Two-Dimensional Cylindric Modal Logic Nick Bezhanishvili and Qian Chen	#120 Arboreal Categories from Shapes Gabriel Goren-Roig, Tomáš Jakl and Luca Reggio		#8 Rewriting Systems on Arbitrary Monoids Eduardo Magalhães
16:35–16:50	Short break				
16:50–17:20	#67 Varieties of distributive l-pregroups Simon Santschi and Nick Galatos	#135 On 1-variable fragments of modal predicate logics Valentin Shehtman	#151 Examples of Arrow Algebras Max Wehmeier and Benno van den Berg	#45 Localic distances and asymmetric metrization theorems Jorge Picado	#80 Clonoids over finite vector spaces and related computational problems Stefano Fioravanti, Michael Kompacher and Bernardo Rossi
17:25–17:55	#13 Semi-direct products and similar constructions of residuated lattices Michal Botur	#9 Being a union-splitting is decidable in modal logic Tenyo Takahashi	#89 Categorical logic in difference and differential algebra Ivan Tomasic	#69 Basic zero-dimensional spaces: A unifying framework for continuity and openness João Areias and Jorge Picado	#39 Automata on Graph Alphabets Hugo Bazille and Uli Fahrenberg
20:00	Reception				

Time	Parallel session 1 Room 1	Parallel session 2 Room 2	Parallel session 3 Room 3	Parallel session 4 Room 4	Parallel session 5 Room 5
	Chair: George Metcalfe				
09:00–10:00	INVITED LECTURE Wesley Fussner Lax amalgamation and equational consequence				
10:00–10:30	Coffee break				
	Chair: George Metcalfe	Chair: Valeria de Paiva	Chair: Alexander Kurz	Chair: Tomáš Jakl	Chair: Amanda Vidal
10:30–11:00	#1 Decidability in integral conuclear residuated lattices Adam Přenosil	#29 Axiomatization of logics complete with respect to 3-element Semi-Heyting algebras Sebastian Stokłosa	#104 Evolution systems and embedding-projection pairs Wiesław Kubis	#86 Revisiting the localic Kuratowski-Mrówka theorem Joshua Passmore	#30 Semiring-Valued Logics with Twist-Structure Semantics Libor Behounek
11:05–11:35	#141 Algebraic proof theory for distributive sequent calculi and GBI-algebras Christian Naess and Nick Galatos	#36 Cut-free Deductive Systems for Affine and Continuous Intuitionistic Logic Guillaume Raymond Geoffroy	#108 Soberness as idempotent-completeness: towards a formal model theory of virtual ultracategories Gabriel Saadia and Errol Yuksel	#87 TD-coreflection pointfreely and its generalization to other separation axioms Ranjitha Raviprakash, Guram Bezhanishvili, Sebastian David Melzer and Anna Laura Suarez	#58 Double equivalential algebras Sławomir Przybyło
11:40–12:10	#98 A Non-Distributive Equivalence for Finite Pointed Brouwerian Algebras and their Algebras of Fractions Brendan Dufty and Nikolaos Galatos	#40 The Eliminability of Delta in Gödel Logics Mariami Gamsakhurdia and Matthias Baaz	#137 The compactness theorem for topos-valued models Kristóf Kanalas	#25 Ultracontact algebras and stack systems Rafał Gruszczynski, Luca Carai, Ivo Düntsch and Anna Laura Suarez	#127 On the Decidability of Comparing Many-Valued Logics: A WSkS Approach Sérgio Marcelino
12:10–14:00	Lunch break				
	Chair: Jorge Picado				
14:00–15:00	INVITED LECTURE Anna Laura Suarez Pointfree theories of T_0 spaces				
15:00–15:30	Coffee break				
	Chair: Serafina Lapenta	Chair: Luca Carai	Chair: Luca Reggio	Chair: Jorge Picado	Chair: Libor Behounek
15:30–16:00	#131 Product Łukasiewicz Unbound Logic Filip Jankovec	#41 On the theory of finite Gödel Algebras Pedro Rodríguez Díaz and Tommaso Moraschini	#70 A Directed Refinement of Constructive Ordinals in Algebraic Set Theory Benno van den Berg and Josje van der Laan	#113 Localic Relations with Open Cones Nesta van der Schaaf	#97 Quantale-Enriched Universal Algebra: Completeness Yiwen Ding and Alexander Kurz
16:05–16:35	#76 On the lattice of subvarieties of equational states Nick Galatos, Serafina Lapenta and Sebastiano Napolitano	#50 Algebras and general frames for interpretability logics Teo Šestak	#140 Makkai’s lost proof of projectivity of $\mathbf{N}$ in the free topos Andrew Swan, Peter Lefanu Lumsdaine and Henrik Forssell	#136 On lifting maps to the Wallman compactification Elena Pozzan	#88 Easy direct limits property in some classes of algebras Małgorzata Jastrzębska and Emília Halušková
16:35–16:50	Short break				
16:50–17:20	#17 Structural completeness in basic hoops and BL-algebras Francesco Manfucci and Paolo Agliano’	#49 Interpolation in the Inquisitive Hierarchy Josef von Hoffmann Doyle and Wesley Fussner	#90 Relative (co-)Yoneda Lemma for Categories Indexed over a Small-Generated Site Olivia Caramello and Bruno Drioux	#35 Quad Rings and Quad Algebras: From Duality to Logical Perspective Arun Kumar, Bisham Dewan and Neha Gaur	#38 Axiomatizing logics of finite Godel-Kripke models Amanda Vidal and Ricardo Oscar Rodriguez
17:25–17:55	#47 Reasoning in the real world with BL multi-modal logic Guillermo Badia, Carles Noguera, Alberto Paparella and Guido Sciavicco	#126 There are only denumerably many locally tabular bi-intermediate logics of trees and of co-trees Miguel Martins	#92 Relative Points and Completions of Indexed Categories Olivia Caramello and Gabriel Merlin	#111 Adjoints and the preservation of order David Holgate, Ana Belen Avilez and Bakulikira Claude Iragi	#18 Symmetric Difference in Lattices With Complementation Václav Cenker, Ivan Chajda and Helmut Länger
18:00–19:00	Open discussion				

Time	Parallel session 1 Room 1	Parallel session 2 Room 2	Parallel session 3 Room 3	Parallel session 4 Room 4	Parallel session 5 Room 5
	Chair: Andrew Moshier				
09:00–10:00	INVITED LECTURE Valeria de Paiva Small dialectica categories				
10:00–10:30	Coffee break				
	Chair: Silvio Ghilardi	Chair: Valentin Shehtman	Chair: Igor Arrieta	Chair: Andrew Moshier	Chair: Sándor Jenei
10:30–11:00	#24 The Beth companion: making implicit operations explicit Luca Carai, Miriam Kurtzhals and Tommaso Moraschini	#102 Arithmetic polytopes, ordered groups, and affine monoids: a duality theorem Vincenzo Marra, Luca Reggio and Caterina Sioli	#125 Lax comma categories: descent and exponentiability Rui Prezado	#103 Quantale-enriched proof theory Andrea De Domenico, Giuseppe Greco, Alexander Kurz, Brandon Laing and Apostolos Tzimoulis	#110 The equivalential fragment of FLew Gaia Petreni
11:05–11:35	#72 Implicit operations in reduced commutative rings Miriam Kurtzhals, Tommaso Moraschini and Luca Carai	#64 Modally definable polyhedra. Francesco Tognetti	#150 A double-categorical perspective (or two) on dual fibrations Robert Morissette	#107 How to build categorical semantics of proofs for the basic modal Lambek logic and beyond Peter Faul, Giuseppe Greco, Brandon Laing, Fei Liang and Apostolos Tzimoulis	#105 Intmax2: A Secure Blockchain Protocol Enabled by Lattice-Ordered Abelian Groups Denisa Diaconescu, Erik Rybakken, Leona Hioki, Mario Yaksetig, Frantisek Silvasi and Julian Sutherland
11:40–12:10	#19 Implicit operations in varieties of commutative monoids Luca Carai, Miriam Kurtzhals and Tommaso Moraschini	#78 Modal Logics of Zariski-constructible and Semialgebraic Sets Simon Kreuzer	#129 A graphical calculus for categorical linear dependency Norihiko Yamada	#134 Refutational Display Calculi Andrea De Domenico, Giuseppe Greco, Alessandra Palmigiano, Andrea Sabatini and Mario Piazza	#139 On varieties of modular lattices with complementation Jan Kühn
12:10–14:00	Lunch break				
	Chair: Sam van Gool				
14:00–15:00	INVITED LECTURE George Metcalfe Decision problems for ordered monoids				
15:00–15:30	Coffee break				
15:30	Excursion				

Time	Parallel session 1 Room 1	Parallel session 2 Room 2	Parallel session 3 Room 3	Parallel session 4 Room 4	Parallel session 5 Room 5
	Chair: Marco Abbadini				
09:00–10:00	INVITED LECTURE Serafina Lapenta The logic of arithmetic Markov chains				
10:00–10:30	Coffee break				
	Chair: Wesley Fussner	Chair: Tommaso Moraschini	Chair: Marco Abbadini	Chair: Rui Prezado	Chair: Tadeusz Litak
10:30–11:00	#6 On actions and split extensions in varieties of hoops Manuel Mancini, Giuseppe Metere and Federica Piazza	#66 Superalgamation for modal lattices via non-distributive dualities Simon Lemal, Rodrigo Nicolau Almeida and Nick Bezhanishvili	#118 Regular epi in the regular category of rational polyhedra and Z-maps Matías Menni and Luca Spada	#132 Spectral spaces from closure operators on semilattice-ordered semigroups Damian Siejwa	#128 Quasi-equational bases for oriented paths Marcel Jackson, Tomasz Kowalski and Michał Stronkowski
11:05–11:35	#10 A Model Companion for an Extension of Abelian Lattice-Ordered Groups John Stokes-Waters	#147 Modal Measurable Logics via a Modal Loomis-Sikorski Representation Theorem Nick Bezhanishvili, Jim de Groot and Lawrence Moss	#93 Conceptual completeness for geometric logic via ultraconvergence spaces Sam van Gool, Jérémie Marquès and Umberto Tarantino	#142 Concerning uniform Menger quotients Mbekezeli Nxumalo	#146 Maximal sublattices of finite semidistributive lattices Kira Adaricheva, Adam Mata, Sylvia Silberger and Anna Zamojska-Dzienio
11:40–12:10	#12 Semiconical residuated lattices with an idempotent skeleton Valeria Giustarini, Nikolaos Galatos and Sara Ugolini	#116 Esakia duality for temporal Heyting algebras David Quinn Alvarez	#95 Regular hyperdoctrines as double functors José Siqueira	#122 Stone Duality Proofs for Colorless Distributed Computability Theorems Cameron Calk and Emmanuel Godard	#133 Conjunctive Concept Algebras – Unnamed Perspective Jens Koetters and Stefan Schmidt
12:10–14:00	Lunch break				
	Chair: Anna Laura Suarez				
14:00–15:00	INVITED LECTURE Dirk Hofmann Topology and metric				
15:00–15:30	Coffee break				
	Chair: Denisa Diaconescu	Chair: Jim de Groot	Chair: Vincenzo Marra	Chair: Anna Laura Suarez	Chair: Anna Zamojska-Dzienio
15:30–16:00		#106 Revisiting Completeness of Fixpoint Logics Killian Barbé, Sam van Gool and Daniela Petrişan	#117 Stone Duality for Monads Richard Garner, Alyssa Renata and Nicolas Wu	#54 Duality for quasi-Nelson algebras with recovery operators Umberto Rivieccio and Ramon Jansana	#138 A first-order extension of multi-lingual sequent calculus Miguel Ángel Trejo-Huerta and M. Andrew Moshier
16:05–16:35	#149 Exactly Five Subquasivarieties of Sugihara Algebras have the Amalgamation Property Krzysztof Krawczyk and Wesley Fussner	#121 Delimited control, the Casari schema, and KM Chase Meadors	#4 A completeness theorem for topological doctrines Silvio Ghilardi and Jérémie Marquès	#34 A Unified Categorical Duality for Preminimal Negation and Beyond: Extending Compatibility Semantics Along Dunn’s Negation Hierarchy Arun Kumar, Neha Gaur and Bisham Dewan	#73 Defeasible Reasoning on Concepts Yiwen Ding, Krishna Manoorkar, Alessandra Palmigiano, Ni Wayan Switrayni and Ruoding Wang
16:35–16:50	Short break				
16:50–17:20	#65 Theorems of alternatives, algebraically Isabel Hortelano Martín and George Metcalfe	#84 Tense Information Logic with Incomparable Fusion and Overlap Timo Franssen	#11 A topos for étale-finite Heyting algebras Marco Abbadini, Rodrigo Nicolau Almeida and Igor Arrieta	#28 Unicoherence in Locales Cerene Rathilal	#148 Biquasiintuitionistic logic and related structures Benjamin Engel and Ryshard-Pavel Kostecki
17:25–17:55	#114 A generic construction of free algebras in varieties of Hilbert algebras and Brouwerian semilattices Tomasz Kowalski and Katarzyna Słomczyńska	#100 Craig Interpolation in the Logic of Temporal Linear Structures Evgeny Kuznetsov, Konstantine Razmadze and Levan Uridia	#74 Coequivalence relations and descent in modal and superintuitionistic logic Rodrigo Nicolau Almeida and Matteo de Berardinis	#83 Dual presentations of frames Graham Manuell	#44 On pseudo-associative conjunctive operations on relations of rank 3 Dmitry Bredikhin
19:00	Conference dinner				

Time	Parallel session 1 Room 1	Parallel session 2 Room 2	Parallel session 3 Room 3	Parallel session 4 Room 4	Parallel session 5 Room 5
	Chair: Nick Bezhanishvili				
09:00–10:00	INVITED LECTURE Tadeusz Litak				
10:00–10:30	Coffee break				
	Chair: Marta Bilkova	Chair: Nick Bezhanishvili	Chair: Umberto Tarantino	Chair: Giuseppe Greco	Chair: –
10:30–11:00	#62 On Bochvar algebras and regular double Stone algebras Francesco Paoli, Gandolfo Vergottini, Nicolò Zamperlin and Davide Fazio	#101 MacNeille Completion and Canonical Completion of Monadic Ortholattices Joseph McDonald	#112 Lifting structure from states to propositions: the various Day extensions available Joshua Wrigley and Edmund Robinson	#68 A Nested Approach to Relevant Logic Fabio De Martin Polo and Han Gao	–
11:05–11:35	#60 Enriched Płonka sums Ludovico Fusco and Francesco Paoli	#145 Constructive Quantum Logics Guillaume Massas	#59 Coherent and ideal actions in ideally exact categories with an application to varieties of universal algebras Manuel Mancini, Giuseppe Metere and Federica Piazza	#55 Sequent Calculi in Semiring Semantics James Carr	–
11:40–12:10	#46 Topological and differentiable aspects of Clifford semigroups Stefano Bonzio, Andrea Loi and Giuseppe Zecchini	#23 On the universal theory of the free pseudo-complemented distributive lattice Luca Carai and Tommaso Moraschini	#124 Machine Space, Exponential Spaces and Compactness Peter Faul and Graham Manuell	–	–
12:10–14:00	Lunch break				
	Chair: Tomasz Kowalski				
14:00–15:00	INVITED LECTURE Marcus Tressl On compact open sets				
15:00–15:30	Coffee break				