

Program

AiML 2018 & LATD 2018

University of Bern, 27–31 August 2018

August 27th, Monday

8:15	Foyer, Exakte Wissenschaften (ExWi) Building Sidlerstrasse 5, 3012 Bern	Registration
9:00	Room A6 <i>Chair: Giovanna D'Agostino</i>	PLENARY TALK: Rob Goldblatt Canonicity frameworks and ultraproducts of polarities
10:00		Coffee Break
10:30	Room A6 <i>Chair: Valentin Shehtman</i>	Tomasz Kowalski and George Metcalfe Coherence in modal logic
11:00		Wesley Holliday and Tadeusz Litak One modal logic to rule them all?
11:30		Yifeng Ding On the logics with propositional quantifiers extending $S5\Pi$
12:00		Alex Citkin One-Generated $WS5$ -algebras
12:30		Lunch Break
14:00	Room A6 <i>Chair: Rob Goldblatt</i>	Valentin Shehtman On Kripke completeness of some modal predicate logics with the density axiom
14:30		Dmitrij Skvortsov A remark on the superintuitionistic predicate logic of Kripke frames of finite height with constant domains: A simpler Kripke complete logic that is not strongly complete
15:00		Mikhail Rybakov and Dmitry Shkatov A recursively-enumerable Kripke-complete first-order logic not complete with respect to a first-order definable class of frames
15:30		Coffee Break

Short Papers

(see next page)

Short Papers

	Room A6 <i>Chair: Ian Hodkinson</i>	Room B5 <i>Chair: Nicola Olivetti</i>	Room B6 <i>Chair: Valentin Goranko</i>
16:00	Rineke Verbrugge Zero-one laws with respect to models of provability logic and two Grzegorzczuk logics	Caitlin D’Abrera and Rajeev Goré Verified synthesis of (very simple) Sahlqvist correspondents via Coq	Michał Stronkowski and Mateusz Uliński Active structural completeness for tabular modal logics
16:15	Mirjam de Vos, Barteld Kooi, and Rineke Verbrugge Provability logic meets the knower paradox	Daniel Skurt and Heinrich Wansing Logical connectives for some FDE-based modal logics	Valentin Cassano, Raul Fervari, Carlos Areces, and Pablo Castro Interpolation results for default logic over modal logic
16:30	Nick Bezhanishvili and Wesley Holliday Topological possibility frames	Giuseppe Greco, Fei Liang, Krishna Manoorkar, and Alessandra Palmigiano Proper display calculi for rough algebras	Grigory Olkhovikov Failure of interpolation in Stit logic
16:45	Rajab Aghamov Modal logic with the difference modality of topological T_0 -spaces	George Metcalfe and Olim Tuyt Finite model properties for the one-variable fragment of first-order Gödel logic	Timo Eckhardt Modelling forgetting
17:00	Luka Mikec and Tin Perkov Existentially valid formulas corresponding to some normal modal logics	Sergey Drobyshevich Sorting out FDE-based modal logics	Éric Goubault, Jérémy Ledent, and Sergio Rajsbaum A simplicial complex model for epistemic logic
17:15	Christopher Hampson, Stanislav Kikot, Agi Kurucz, and Sergio Marcelino Non-finitely axiomatisable modal products with infinite canonical axiomatisations	Libor Behounek and Antonin Dvorak Kripke modalities with truth-functional gaps	Vit Puncochar and Igor Sedlar From the positive fragment of PDL to its non-classical extensions
17:30	Massoud Pourmahdian and Reihane Zoghifard Frame definability and extensions of first-order modal logic	Paolo Baldi, Petr Cintula, and Carles Noguera Translating logics of uncertainty into two-layered modal fuzzy logics	Vit Puncochar and Igor Sedlar Informational semantics for superintuitionistic modal logics
17:45	Massoud Pourmahdian and Reihane Zoghifard Compactness for modal probability logic	Alexander Kurz and Bruno Teheux Categories of coalgebras for modal extensions of Łukasiewicz logic	Ondrej Majer and Igor Sedlar Plausibility and conditional beliefs in paraconsistent modal logic

August 28th, Tuesday

9:00	Room A6 <i>Chair: George Metcalfe</i>		PLENARY TALK: Rosalie Iemhoff The existence of proof systems
10:00 Coffee Break			
Room B5 <i>Chair: Rosalie Iemhoff</i> (AiML) Room B6 <i>Chair: Lluís Godo</i> (LATD)			
10:30	Silvio Ghilardi and Luigi Santocanale Ruitenburg's theorem via duality and bounded bisimulations		Matthias Baaz and Norbert Preining First order Gödel logics with propositional quantifiers
11:00	Roman Kuznets and Björn Lellmann Interpolation for intermediate logics via hyper- and linear nested sequents		Guillermo Badia and Carles Noguera Maximality of first-order logics based on finite MTL-chains
11:30	Michel Marti and Thomas Studer The internalized disjunction property for intuitionistic justification logic		Denisa Diaconescu and Petr Cintula Omitting types theorem in mathematical fuzzy logic
12:00	Stéphane Demri and Raul Fervari On the complexity of modal separation logics		Denisa Diaconescu, Petr Cintula, and George Metcalfe Skolemization and Herbrand theorems for lattice-valued logics
12:30 Lunch Break			
14:00	Room A6 <i>Chair: James Raftery</i>		PLENARY TALK: Tommaso Moraschini Relational semantics, ordered algebras, and quantifiers for deductive systems
15:00 Coffee Break			
Room B5 <i>Chair: Rajeev Goré</i> (AiML) Room B6 <i>Chair: Tommaso Moraschini</i> (LATD)			
15:30	Philippe Balbiani, David Fernández-Duque, Andreas Herzig, and Petar Iliev Frame-validity games and absolute minimality of modal axioms		Alex Citkin Hereditarily structurally complete positive logics
16:00	Philippe Balbiani and Martín Diéguez Here and There modal logic with dual implication		Michał Stronkowski Deciding active structural completeness
16:30	Martín Diéguez and David Fernández-Duque An intuitionistic axiomatization of 'eventually'		Wesley Fussner and Alessandra Palmigiano Residuated structures with functional frames
18:00 Schloss Köniz Schlossstrasse, 3098 Köniz			
Welcome Reception			

August 29th, Wednesday

9:00	Room A6 <i>Chair: Peter Jipsen</i>	PLENARY TALK: Marta Bílková Logics of information and belief, coalgebraically
10:00	Coffee Break	
	Room B5 <i>Chair: Rineke Verbrugge</i> (AiML)	Room B6 <i>Chair: Nikolaos Galatos</i> (LATD)
10:30	Ivano Ciardelli Dependence statements are strict conditionals	Guram Bezhanishvili, John Harding, Julia Ilin, and Frederik M. Lauridsen MacNeille transferability of finite lattices
11:00	Yanjing Wang and Jeremy Seligman When names are not commonly known: Epistemic logic with assignments	Tommaso Moraschini, James Raftery, and Jamie Wannenburg Epimorphisms, definability and cardinalities
11:30	Tristan Charrier and Francois Schwarzentruher Complexity of dynamic epistemic logic with common knowledge	Tommaso Moraschini, James Raftery, and Jamie Wannenburg Epimorphisms in varieties of square-increasing residuated structures
12:00	Gaëtan Douéneau-Tabot, Sophie Pinchinat, and François Schwarzentruher Chain-monadic second order logic over regular automatic trees and epistemic planning synthesis	Eunsuk Yang and J. Michael Dunn Implicational tonoid logics and their relational semantics
12:30	Free Afternoon	

August 30th, Thursday

9:00	Room A6 <i>Chair: Agi Kurucz</i>		PLENARY TALK: Stanislav Kikot Kripke completeness of strictly positive modal logics over meet semi-lattices with operators	
10:00 Coffee Break				
Room B5 <i>Chair: Sara Negri</i>		(AiML)	Room B6 <i>Chair: Marta Bílková</i> (LATD)	
10:30	Stepan Kuznetsov *-continuity vs. induction: divide and conquer		Amanda Vidal Non axiomatizability of the finitary Łukasiewicz modal logic	
11:00	Arnon Avron and Ori Lahav A simple cut-free system for a paraconsistent logic equivalent to $S5$		Petr Cintula, Paula Menchón, and Carles Noguera General neighborhood and Kripke semantics for modal many-valued logics	
11:30	Andrzej Indrzejczak Cut-free modal theory of definite descriptions		Ioana Leustean and Natalia Moangă A many-sorted polyadic modal logic	
12:00	David Baelde, Anthony Lick, and Sylvain Schmitz A hypersequent calculus with clusters for linear frames			
12:30 Lunch Break				
14:00	Room A6 <i>Chair: Carles Noguera</i>		PLENARY TALK: Nikolaos Galatos Embedding lattice-ordered bi-monoids in involutive commutative residuated lattices	
15:00 Coffee Break				
Room B5 <i>Chair: Arnon Avron</i>		(AiML)	Room B6 <i>Chair: Ioana Leustean</i> (LATD)	
15:30	Fengkui Ju, Gianluca Grilletti, and Valentin Goranko Logic of temporal conditionals and a solution to the Sea Battle Puzzle		Marcelo Coniglio, Francesc Esteva, Joan Gispert, and Lluís Godo Maximality in finite-valued Łukasiewicz logics defined by order filters	
16:00	Marianna Girlando, Sara Negri, and Nicola Olivetti Counterfactual logic: labelled and internal calculi, two sides of the same coin?		Marcelo Coniglio, Tommaso Flaminio, Francesc Esteva, and Lluís Godo On an implication-free reduct of MV_n chains	
16:30	Tiziano Dalmonte, Nicola Olivetti, and Sara Negri Non-normal modal logics: bi-neighbourhood semantics and its labelled calculi		Manuela Busaniche, Penélope Cordero, and Ricardo Óscar Rodríguez Epistemic MV-algebras	
17:00	Frederik Van De Putte and Dominik Klein Pointwise intersection in neighbourhood modal logic		Sándor Jenei IUL^{fp} enjoys finite strong standard completeness	
19:00	Event-Lounge Dalmaziquai 11, 3005 Bern		Social Dinner	

August 31st, Friday

Room B5 *Chair: Stéphane Demri* (AiML) **Room B6** *Chair: Matthias Baaz* (LATD)

10:30	Robin Hirsch and Brett McLean The temporal logic of two-dimensional Minkowski spacetime with slower-than-light accessibility is decidable	
11:00	James Koussas, Tomasz Kowalski, Yutaka Miyazaki, and Michael Stevens Normal extensions of <i>KTB</i> of codimension 3	Umberto Rivieccio, Thiago N. Silva, and Matthew Spinks Residuated lattices and the Nelson identity
11:30	Eduardo Hermo Reyes and Joost Joosten Relational semantics for the Turing Schmerl calculus	Peter Jipsen, Fei Liang, M. Andrew Moshier, and Apostolos Tzimoulis Partially-ordered multi-type algebras, display calculi and the category of weakening relations
12:00	Ana de Almeida Borges and Joost Joosten The Worm Calculus	
12:30	Lunch Break	

Room B5 *Chair: Thomas Studer* (AiML) **Room B6** *Chair: Petr Cintula* (LATD)

14:00	Ilya Shapirovsky Truth-preserving operations on sums of Kripke frames	Martina Daňková Functionality property in partial fuzzy logic
14:30	Stanislav Kikot, Agi Kurucz, Frank Wolter, and Michael Zakharyashev On strictly positive modal logics with <i>S4.3</i> frames	Libor Behounek and Antonín Dvořák Partial fuzzy modal logic with a crisp and total accessibility relation
15:00	Christopher Hampson The bimodal logic of commuting difference operators is decidable	Igor Sedlar and Amanda Vidal Wandelmer Modal logics for reasoning about weighted graphs
15:30	Birgit Elbl Cut-free sequent calculi for products and relativised products of modal logics	Diana Costa and Manuel A. Martins A fuzzy-paraconsistent version of basic hybrid logic
16:00	Farewell Coffee	