

# Colloquium Logicum 2018

14-16 September 2018

University of Bayreuth

## Program

Friday September 14th All events in room H 34, AI Building	
13:30-14:00	Opening
14:00-15:00	Invited Talk: Charlotte Werndl (Salzburg, Austria)
15:10-16:10	Invited Talk: Isolde Adler (Leeds, England)
16:20-17:05	PhD Colloquium: Anton Freund (Darmstadt)
17:10-17:55	PhD Colloquium: Stefan Hoffelner (Muenster)
18:00-18:45	PhD Colloquium: Regula Krapf (Koblenz-Landau)
20:00	Conference Dinner @ "Oskar - Das Wirtshaus am Markt" Address: Maximilianstraße 33, 95444 Bayreuth



UNIVERSITÄT  
BAYREUTH



Deutsche  
Forschungsgemeinschaft

**DVMLG**

Deutsche Vereinigung für Mathematische Logik und  
für Grundlagenforschung der Exakten Wissenschaften

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Saturday September 15th All events, except contributed talks, in room H 34, AI Building			
10:00-11:00	Invited Talk: Benny Kimelfeld (Haifa, Israel)		
11:30-12:40	Contributed talks Block 1, Session 1: Room S 110:  11:30-11:50: Kaiser 11:55-12:15: Blechschmidt 12:20-12:40: Lampert	Contributed talks Block 2, Session 1: Room S 111 :  11:30-11:50: Brauße <i>et al.</i> 11:55-12:15: Fichtlscherer and Ziegler 12:20-12:40: Brütsch and Thomas	Contributed talks Block 3, Session 1: Room S 112 :  11:30-11:55: Sarikaya 11:55-12:15: Buldt and Elsby 12:20-12:40: Samonek
Lunch break			
14:00-15:00	Invited Talk: Jörg Brendle (Kobe, Japan)		
15:15-16:25	Contributed talks Block 1, Session 2: Room S 110:  15:15-15:35: Passmann 15:40-16:00: Galeotti	Contributed talks Block 2, Session 2: Room S 111 :  15:15-15:35: Schurz 15:40-16:00: Schuster	Contributed talks Block 3, Session 2: Room S 112 :  15:15-15:35: Marra and Klein 15:40-16:00: Fisseni 16:05-16:25: Klein and Rendsvig
16:45-17:45	Invited Talk: Laura Fontanella (Marseille, France)		
18:00-19:30	Mitgliederversammlung DVMLG		

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Sunday September 16th All events, except contributed talks, in room H 34, AI Building			
9:45-10:45	Invited Talk: Sara Negri (Helsinki, Finland)		
11:00-12:35	Contributed talks Block 1, Session 3: Room S 110:  11:00-11:20: Khomskii 11:25-11:45: Wohofsky 11:50-12:10: Pacucci	Contributed talks Block 2, Session 3: Room S 111 :  11:00-11:20: Sanders and Norman 11:25-11:45: Frochaux and Heimberg 11:50-12:10: Klein and Strüngmann	Contributed talks Block 3, Session 3: Room S 112 :  11:00-11:20: Puncoschar 11:25-11:45: Klein and Van De Putte 11:50-12:10: Vestrucci
Lunch break			
13:30-14:15	PhD Colloquium: Antoine Mottet (Dresden)		
14:20-15:05	PhD Colloquium: Florian Steinberg		
15:15-16:15	Invited Talk: Douglas Cenzer (Gainesville FL, U.S.A.)		

List of Contributed Talks (by Blocks and Sessions):

Block 1:

Session 1 (Saturday, 11:30-12:40):

11:30-11:50 Tobias Kaiser (Passau, Germany):

*Logarithms, constructible functions and integration on non-archimedean models of the theory of the real field with restricted analytic functions with value group of finite archimedean rank.*

11:55-12:15: Ingo Blechschmidt (Augsburg):

*New reduction techniques in commutative algebra driven by logical methods.*

12:20-12:40: Timm Lampert (Berlin):

*Turing's Fallacy of Substitution*

Session 2: (Saturday, 15:15-16:25):

15:15-15:35: Robert Passmann (Amsterdam, The Netherlands):

*The Propositional Logic of Models of Set Theory*

15:40-16:00: Lorenzo Galeotti:

*The Bolzano-Weierstraß Theorem in Generalised Analysis*

Session 3: (Sunday, 11:30-12:40)

11:00-11:20: Yurii Khomskii (Hamburg):

*Symbiosis and Upwards Reflection*

11:25-11:45: Wolfgang Wohofsky (Kiel):

*A Sacks amoeba forcing preserving distributivity of  $P(\omega)$  / finite*

11:50-12:10: Matteo Pascucci (Slovak Academy of Sciences, Bratislava):

*Cohesiveness in canonical models*

Block 2:

Session 1 (Saturday, 11:30-12:40):

11:30-11:30: Franz Brauße (Trier), Pieter Collins (Maastricht, The Netherlands), Michal Konečný (Birmingham, United Kingdom), Gyesik Lee (Hankyong, South Korea), Norbert Th. Müller (Trier), Eike Neumann (Birmingham, United Kingdom), Sewon Park (Daejeon, South Korea), Norbert Preining (Ishikawa, Japan), Martin Ziegler (Daejeon, South Korea):

*Semantics, Logic, and Verification of Exact Real Computation*

11:55-12:15: Christopher Fichtlscherer (Hamburg), Martin Ziegler (Daejeon, South Korea):

*On the Logic of Deterrence*

12:20-12:40: Benedikt Brütsch (Aachen), Wolfgang Thomas (Aachen):

*Solving Games in the Baire Space*

Session 2: (Saturday, 15:15-16:00):

15:15-15:35: Gerhard Schurz (Düsseldorf):

*Universal Translatability: A Noncircular Justification of (Classical) Logic*

15:40-16:00: Peter Schuster (Verona, Italy), Daniel Wessel (Verona, Italy), Giulio Fellin (Verona, Italy)

*On the Jacobson Radical of a Propositional Theory*

Session 3: (Sunday, 11:00-12:10)

11:00-11:20: Sam Sanders (München) and Dag Normann (Oslo, Norway)

*On the mathematical and foundational significance of the uncountable*

11:25-11:45: André Frochaux (Berlin), Lucas Heimberg (Berlin)

*An Optimal Construction for the Barthelmann-Schwentick Normal Form on Classes of Structures of Bounded Degree*

11:50-12:10: Dominik Klein (Bamberg & Bayreuth) and Lutz Strüngmann (Mannheim):

*On forceable values of  $\text{Ext}(-, W)$  for certain torsion free groups  $W$*

Block 3:

Session 1 (Saturday, 11:30-12:40):

11:30-11:30: Deniz Sarikaya (Hamburg):

*Incommensurability and Formalization*

11:55-12:15: Bernd Buldt (Fort Wayne IN, U.S.A.), Charlene Elsby (Fort Wayne IN, U.S.A.)

*Mathematical Act and Mathematical Existence According to Husserl*

12:20-12:40: Aleksandra Samonek (Louvain, Belgium):

*What Poincaré's conventional geometry means for anti-exceptionalism of logical calculi*

Session 2: (Saturday, 15:15-16:25):

15:15-15:35: Alessandra Marra (Bayreuth) and Dominik Klein (Bamberg & Bayreuth):

*A Logic for Enkrasia*

15:40-16:00: Bernhard Fisseni (Duisburg-Essen, Institut für Deutsche Sprache):

*Perspectives as Frames or Feature Structures*

16:05-16:25: Dominik Klein and Rasmus K. Rendsvig:

*Worlds far apart: From Kripke Models to Dynamical Systems*

Session 3: (Sunday, 11:00-12:35)

11:00-11:20: Vit Puncochar (Prague, Czech Republic):

*A Relevant Logic of Questions*

11:25-11:45: Dominik Klein (Bamberg & Bayreuth), Frederik Van De Putte (Bayreuth & Gent, Belgium)

*Intersection modalities in neighborhood modal logic*

11:50-12:10: Andrea Vestrucci (UC Berkeley):

*Foundation from Theology*