Benedikt Pago (University of Cambridge)
Symmetric algebraic circuits and homomorphism counting

Eva Fluck (RWTH Aachen)
Monotonicity of cops-and-robber-games

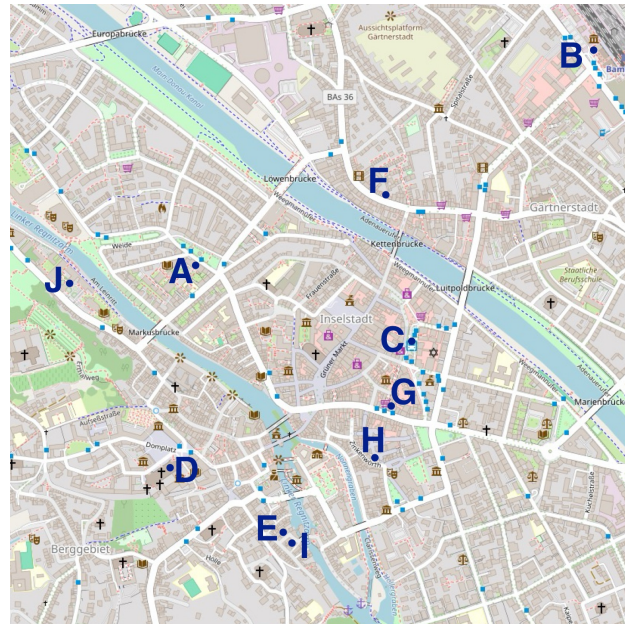|	
11:45 - 12:05	Break

12:05 - 12:55	**Session 6: Semantics**

Marius Tritschler (TU Darmstadt)
Team logics with function atoms

Sophie Brinke (RWTH Aachen)
Compactness in Semiring Semantics

12:55 - 13:00	Farewell

Optional Social Event: Stay for lunch, then attend the guided tour to the famous *Bamberg Cathedral* at 14:15. End: approx. 15:15. Advice on options for lunch will be given.

Map source: © OpenStreetMap contributors

A: Marcushaus

B: Main Railway Station

C: Central Bus Station (ZOB)

D: Bamberg Cathedral

E: Klosterbräu

F: Hotel Europa

G: Hotel Ibis Styles

H: Hotel Ibis Altstadt

I: Hotel Molitor

J: Welcome Hotel

AlMoTh 2025

February 27 - 28, 2025

University of Bamberg

Welcome

AlMoTh 2025 takes place at Otto-Friedrich-Universität Bamberg, 27th and 28th of February, 2025.
The meeting is held in room M3N/02.32 of the *Marcushaus* building, Markusplatz 3.

Getting Here

By foot: From the station Marcushaus is an approximately 20 minute walk.
By bus: From the station bus stop, take any bus to the *ZOB*. From there any bus on the routes 904, 906, 910 or 915 will take you to the *Markusplatz* bus stop, which is across the street from Marcushaus. The 906 departs every 15 minutes from bay G.
Timetables can be found in *VGN* mobile app.

AlMoTh Dinner and Social Event

We will have dinner at 19:30 on the 27th at the *Klosterbräu* Gaststätte, Obere Mühlbrücke 1-3 (close to the bus line 910 in the direction of Michelsberg, the bus stop Domplatz, and a 15 minute walk from the conference location).
A guided tour to the famous Bamberg Cathedral, 14:15 - approx. 15:15, on Friday 28.2.2025.

Internet

Internet is accessible via *eduroam* on the campus or *@BayernWLAN* throughout the city.

Contact

Website:
https://www.uni-bamberg.de/algok/
research/almoth2025

Email:
almoth2025.algok@uni-bamberg.de

Programme

Thursday, February 27

12:30 - 13:15	Arrival and snack
13:15 - 13:25	Welcome
13:25 - 14:40	**Session 1: Homomorphisms and model checking**

Harry Vinall-Smeeth (TU Ilmenau)
When does a set of homomorphisms not admit a small representation?

Louis Härtel (RWTH Aachen)
Approximations of Homomorphism Reconstructibility

Florian Bruse (TU Munich)
Space-Efficient Model-Checking of Higher-Order Recursion Schemes

14:40 - 15:10	Break
15:10 - 16:25	**Session 2: Logic, tame graph classes and succinctness**

Steffen van Bergerem (HU Berlin)
On the VC Dimension of First-Order Logic with Counting and Weight Aggregation

Nikolas Mählmann (University of Bremen)
Forbidden Induced Subgraphs for Bounded Shrub-Depth and the Expressive Power of MSO

Sebastian Pfau (TU Ilmenau)
A formula size game for modal logic

16:25 - 16:45	Break
16:45 - 17:35	**Session 3: Colour refinement and finite variable logics**

Benjamin Scheidt (HU Berlin)
Color Refinement for Relational Structures

Georg Schindling (TU Darmstadt)
Aspects of Requantification in Finite Variable Logics

19:30	Dinner at Klosterbräu

Friday, February 28

09:00 - 10:15	**Session 4: Languages and queries**

Wim Martens (University of Bayreuth)
Programming in the Large with Data

Owen Bell (Loughborough University, UK)
FC-Datalog as a Framework for Efficient String Querying

Sam M. Thompson (Loughborough University, UK)
Characterization and Decidability of FC-Definable Regular Languages

10:15 - 10:30	Break
10:30 - 11:45	**Session 5: Queries, circuits and games**

Sarah Kleest-Meißner (Hasselt University)
Puzzling over Subsequence-Query Extensions - A Medley