

## Informal Workshop on Aperiodic Order

06–08 December 2018

Faculty of Mathematics  
Bielefeld University

This workshop is part of the DFG-funded CRC 1283  
*Taming uncertainty and profiting from randomness and low regularity  
in analysis, stochastics and their applications*  
at Bielefeld University

**Organisers:** Michael Baake, Franz Gähler, Dan Rust

[www.math.uni-bielefeld.de/baake/iaper/](http://www.math.uni-bielefeld.de/baake/iaper/)



**Schedule: Thursday December 6th, 2018**

Lecture Room: **V2-210/216**

14:00 – 14:05 **Opening**

14:05 – 15:00 **Sébastien Labbé** (Université Bordeaux)  
Substitutive structure of Jeandel–Rao aperiodic tilings

15:00 – 15:30 **Coffee break**

15:30 – 16:45 **Mike Keane** (Delft University)  
Classification of substitution dynamical systems

16:45 – 17:15 **Coffee break**

17:15 – 18:30 **Nina Gantert** (TU München)  
Decisiveness or flexibility: who wins?  
(general colloquium)

18:45 **Dinner at Univarza**  
(Main Hall, Bielefeld University)

## Schedule: Friday December 7th, 2018

Lecture Room: **V3-201**

- 09:30 – 10:30 **Gerhard Keller** (University Erlangen-Nürnberg)  
Heredity in  $B$ -free systems and trivial centralizers
- 10:30 – 11:00 **Coffee break** (Room V3-204)
- 11:00 – 12:30 **Robbert Fokkink** (TU Delft)  
Symmetries and extended symmetries of Markov subgroups – part I
- Reem Yassawi** (University Lyon)  
Symmetries and extended symmetries of Markov subgroups – part II
- 12:30 – 14:00 **Lunch Break at Westend-Cafeteria or Univarza**
- 14:00 – 15:30 **Julien Leroy** (University Liège)  
Decidability of the isomorphism and the factorization between minimal substitution subshifts
- Julien Cassaigne** (University Aix-Marseille)  
A family of infinite words with complexity  $2n + 1$  associated with a bidimensional continued fraction algorithm
- 15:30 – 16:00 **Coffee break** (Room V3-204)
- 16:00 – 17:00 **Tanja Schindler** (ANU, Canberra)  
Multifractal analysis of the Thue–Morse measure – part I
- Philipp Gohlke** (Bielefeld University)  
Multifractal analysis of the Thue–Morse measure – part II
- 17:00 – 18:00 **individual discussions**
- Visit of the Christmas market**
- 20:00 **Dinner at La Pampa Steakhouse & Tapasbar**  
(Boulevard 4, Bielefeld)

**Schedule: Saturday December 8th, 2018**

Lecture Room: **V3-201**

09:30 – 10:30 **Michael Coons** (University of Newcastle, Australia and Bielefeld University)  
Mahler's methods: theorems, speculations and variations

10:30 – 11:00 **Coffee break** (Room V3-204)

11:00 – 12:30 **Alvaro Bustos** (University of Chile)  
Extended symmetry groups for multidimensional subshifts with hierarchical structure

**Samuel Petite** (University Jules Verne, Amiens)  
Properties of the centralizer of Cantor minimal systems

12:30 – 14:00 **Lunch Break at Westend-Cafeteria**

14:00 – 15:30 **Jordan Emme** (University Paris)  
Thermodynamic formalism for  $k$ -bonacci substitution

**Timo Spindeler** (University of Alberta, Edmonton)  
A characterization of pure point diffraction via mean almost periodicity

15:30 – 16:00 **Coffee break** (Room V3-204)

16:00 – 17:00 **James Walton** (University of Glasgow)  
On the topology of rotational tiling spaces

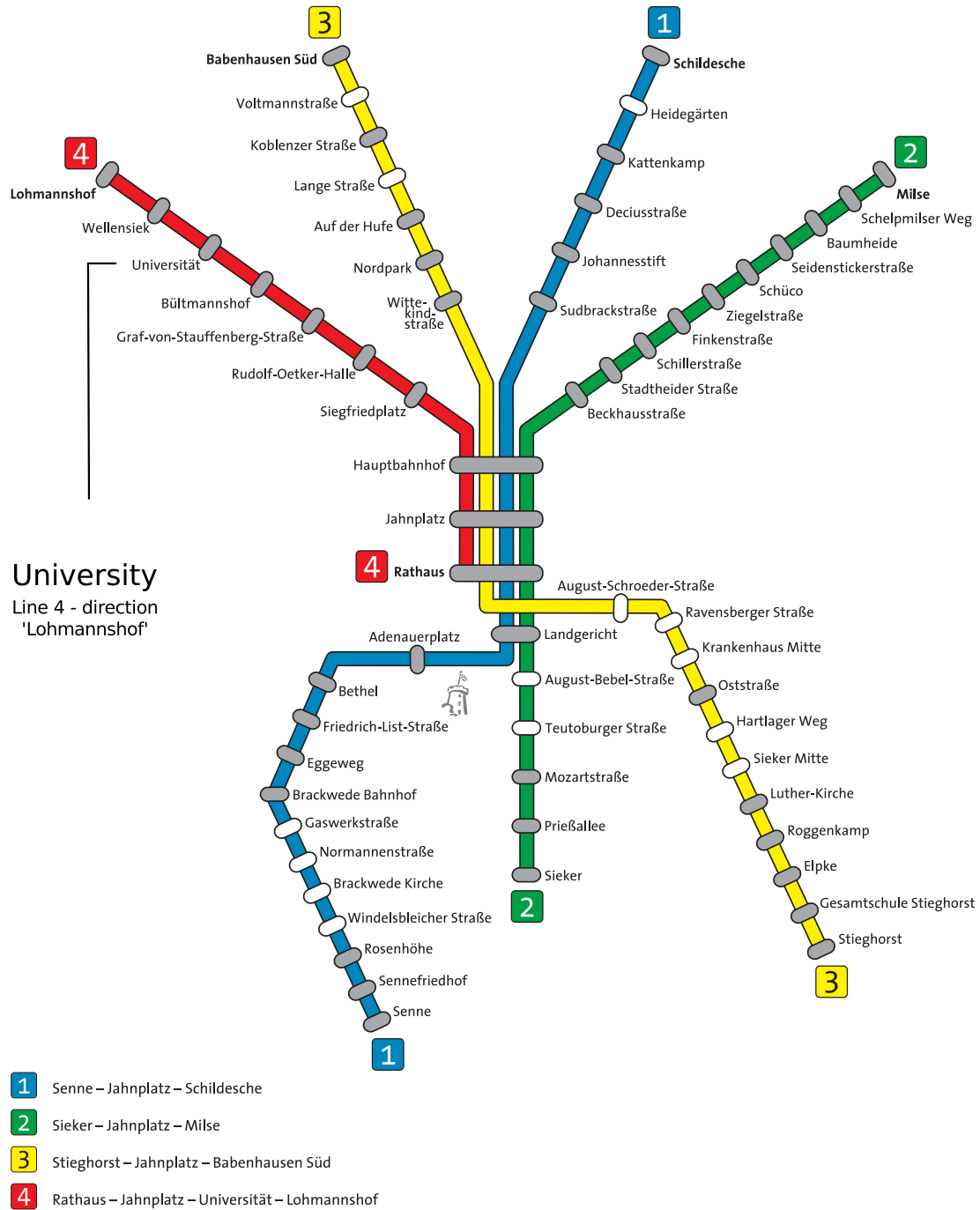
17:00 – 18:00 **individual discussions**

18:30 **Dinner at Rosenhof** Italian Restaurant  
(Wiegandweg 49, Bielefeld)

## Participant List

Michael Baake (Bielefeld University)  
Álvaro Bustos (Universidad de Chile)  
Julien Cassaigne (Aix-Marseille-Université)  
Michael Coons (University of Newcastle, Australia, and Bielefeld University)  
Jordan Emme (Université de Paris-Sud)  
Robbert Fokkink (TU Delft)  
Dirk Frettlöh (Bielefeld University)  
Franz Gähler (Bielefeld University)  
Philipp Gohlke (Bielefeld University)  
Uwe Grimm (Open University)  
Christian Huck (Bielefeld University)  
Peter Kaiser (KIT)  
Mike Keane (TU Delft)  
Gerhard Keller (Erlangen University)  
Sébastien Labbé (Université de Bordeaux)  
Julien Leroy (Université de Liège)  
Neil Manibo (Bielefeld University)  
Jan Mazáč (Czech Technical University Prague)  
Yasushi Nagai (Montan University Leoben)  
Samuel Petite (Université Jules Verne)  
Dan Rust (Bielefeld University)  
Tanja Schindler (Australian National University, Canberra)  
Timo Spindeler (University of Alberta, Edmonton)  
Jamie Walton (University of Glasgow)  
Reem Yassawi (Université Claude Bernard)

# Tram map



# Campus map

