

# Siegmundsburg Seminar on Analysis & Theoretical Numerics

August 26-28, 2019, Siegmundsburg/Thuringia

## Monday, August 26, 2019

- individual travelling to Siegmundsburg*
- 13:00 – 14:00 *Lunch*
- 14:30 – 15:00 **Marc Hovemann** (Jena)  
*"Besov-Morrey Spaces and Differences"*
- 15:05 – 15:35 **Benjamin Hinrichs** (Jena)  
*"Absence of Ground States in the Nelson Model"*
- 15:40 – 16:10 **David Krieg** (Linz)  
*" $L^2$ -Approximation in Hilbert function spaces, I"*
- 16:10 – 16:40 *Coffee break*
- 16:40 – 17:10 **Ian Zimmermann** (Jena)  
*"Blow-up results for a class of semilinear parabolic equations on a topological space"*
- 17:15 – 17:45 **Martin Křepela** (Freiburg)  
*"Solenoidal difference quotients"*
- 17:50 – 18:20 **Hana Turčinová** (Prague)  
*"Characterization of functions with zero traces via the distance function"*
- 18:30 – 20:00 *Dinner*

## Tuesday, August 27, 2019

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:30 **David Krieg** (Linz)  
*" $L^2$ -Approximation in Hilbert function spaces, II"*
- 9:35 – 10:05 **Simon Breneis** (Linz)  
*"Fibonacci lattices have minimal dispersion on the two-dimensional torus"*
- 10:10 – 10:40 **Nadiia Derevianko** (Chemnitz)  
*"A hierarchical B-spline basis for sampling discretization of functions with higher regularity"*
- 10:40 – 11:10 *Coffee break*
- 11:10 – 11:40 **Lenka Slavíková** (Prague)  
*"Fourier multipliers: from linear to multilinear theory, I"*
- 11:45 – 12:15 **Jan Vybíral** (Prague)  
*"Volumes of (non-)convex bodies in  $\mathbb{R}^n$ "*
- 12:30 – 13:30 *Lunch*
- 13:45 – 18:30 *Hiking tour*
- 19:00 – 20:00 *Dinner*

## Wednesday, August 28, 2019

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:30 **Lenka Slavíková** (Prague)  
*"Fourier multipliers: from linear to multilinear theory, II"*
- 9:35 – 10:05 **Ondřej Bouchala** (Prague)  
*"Injectivity almost everywhere for weak limits of Sobolev homeomorphisms"*
- 10:10 – 10:40 **Michael Quellmalz** (Chemnitz)  
*"Sobolev estimates for spherical means and the Funk-Radon transform"*
- 10:40 – 11:10 *Coffee break*
- 11:10 – 11:40 **Sibei Yang** (Lanzhou/Jena)  
*"Real-variable characterizations of Hardy spaces associated to differential operator operators on Lipschitz domains"*
- 11:45 – 12:15 **Luboš Pick** (Prague)  
*"Maximal noncompactness of Sobolev maps into Marcinkiewicz spaces"*
- 13:00 – 13:45 *Lunch*  
*departure from Siegmundsburg*