

Siegmundsburg Seminar on Analysis & Theoretical Numerics

August 1 - 3, 2022, Siegmundsburg/Thuringia

Monday, August 1, 2022

individual travelling to Siegmundsburg

- 13:00 – 14:00 *Lunch*
- 14:15 – 15:00 **Marc Hovemann** (Marburg)
"Adaptive near-best Quarklet Tree Approximation"
- 15:00 – 15:45 **Kai Lüttgen** (Chemnitz)
"On Sobolev spaces of dominating mixed smoothness with $p = 1$ "
- 15:45 – 16:00 **Opening of the Poster Session**
- 16:00 – 16:30 *Coffee break / Poster session*
- 16:30 – 17:15 **Janina Hübner** (Bochum)
"Rate-optimal sparse approximation of compact break-of-scale embeddings"
- 17:15 – 18:00 **Dalimil Peša** (Prague)
"On the smoothness of slowly varying functions"
- 18:30 – 19:30 *Dinner*

Tuesday, August 2, 2022

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:45 **Tim Pöschl** (Freiberg)
"Moving Least Squares Approximation on Spheres"
- 9:45 – 10:30 **Erik Wünsche** (Freiberg)
"Fast Fourier Algorithms on the Rotation Group"
- 10:30 – 11:00 *Coffee break / Poster session*
- 11:00 – 11:45 **Kumar Harsha** (Osnabrück)
"Infinite-Dimensional L^2 -Approximation Based on General Linear Information: The ANOVA and the Non-ANOVA Setting"
- 11:45 – 12:30 **Felix Bartel** (Chemnitz)
"Stability and error guarantees for least squares approximation with noisy samples"
- 12:30 – 13:30 *Lunch*
- 13:45 – 18:30 *Hiking tour*
- 19:00 – 20:00 *Dinner*

Wednesday, August 3, 2021

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:45 **Metin Bozkurt** (Erlangen-Nürnberg)
"Sobolev regularity of parabolic PDEs with inhomogeneous boundary data"
- 9:45 – 10:30 **Romarc Kana Nguedia** (Mittweida/Jena)
"On the Cauchy problem for a semi-linear hyperdissipative heat equation"
- 10:30 – 11:00 *Coffee break / Poster session*
- 11:00 – 11:45 **Martin Křepela** (Prague)
"Rearrangement-invariant hulls of weighted Lebesgue spaces"
- 12:00 – 12:45 *Lunch*
departure from Siegmundsburg

Poster session

- Amiran Gogatishvili** (Prague) *"The two-weight Hardy inequality: a new elementary and universal proof"*
- Manvi Grover** (Prague) *"Description of K -spaces by means of J -spaces and the reverse problem in the limiting real interpolation"*
- Zdeněk Mihula** (Prague) *"Optimal behavior of the Laplace–Beltrami operator on the hyperbolic space"*
- Luboš Pick** (Prague) *"Compact embeddings - old and new"*
- Christian Richter** (Jena) *"On the monotonicity of the isoperimetric quotient for parallel bodies"*
- Hana Turčinová** (Prague) *"Sharp weighted inequalities involving operator-induced norms"*
- Tino Ullrich** (Chemnitz) *"Constructive subsampling of finite frames with applications in optimal function recovery"*
- Markus Weimar** (Bochum) *"Rate-optimal approximation of compact Break-of-scale embeddings"*