

Siegmundsburg Seminar on Analysis & Theoretical Numerics

July 23 - 25, 2024, Siegmundsburg/Thuringia

Tuesday, July 23, 2024

individual travelling to Siegmundsburg

- 13:00 – 14:00 *Lunch*
- 14:30 – 15:15 **Marc Hovemann** (Marburg)
"Besov-Morrey Spaces and Oscillations"
- 15:15 – 16:00 **Nick Schneider** (Erlangen)
"Direct estimates for adaptive time-stepping finite element methods"
- 16:00 – 16:30 *Coffee break / Poster session*
- 16:30 – 17:15 **Ladislav Drážný** (Prague)
"Optimal function spaces in weighted Sobolev embeddings with α -homogeneous weights"
- 17:15 – 18:00 **Thomas Jahn** (Eichstätt-Ingolstadt)
"Besov regularity of random wavelet series"
- 18:15 – 19:15 *Dinner*

Wednesday, July 24, 2024

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:45 **Hana Turčinova** (Prague)
"A new approach to functions with zero traces via the distance function and absolute continuity of $L^{1,\infty}$ -quasinorm"
- 9:45 – 10:30 **Pascal Schröter** (Chemnitz)
Improving ANOVA Approximation via Learning Anisotropy
- 10:30 – 11:00 *Coffee break*
- 11:00 – 11:45 **Moritz Moeller** (Chemnitz)
"Preasymptotic best m -term approximation in Wiener spaces"
- 11:45 – 12:30 **Jan Vybíral** (Prague)
"Riesz bases, neural networks, and approximation theory"
- 12:30 – 13:30 *Lunch*
- 13:45 – 18:30 *Hiking tour*
- 19:00 – 20:00 *Dinner*

Thursday, July 25, 2024

8:00 – 9:00 *Breakfast*

9:00 – 9:45 **Bernd Käßemodel** (Chemnitz)

"Quantum complexity of numerical integration - an overview"

9:45 – 10:30 **Dalimil Peša** (Chemnitz/Prague)

*"On the properties of r.i. quasi-Banach function spaces —
Luxemburg-type representation theory"*

10:30 – 11:00 *Coffee break*

11:00 – 11:45 **Amiran Gogatishvili** (Prague)

"Fourier-analytical decompositions characterization of fractional order Orlicz-Sobolev spaces"

12:00 – 13:00 *Lunch*

departure from Siegmundsburg

Poster session

Luboš Pick (Prague)

"Potential estimates via Calderón theorem"

Kateryna Pozharska (Chemnitz)

"Sampling recovery, discretization and norms of the projection operators"