

Siegmundsburg Seminar on Analysis & Theoretical Numerics

July 21-24, 2015, Siegmundsburg/Thuringia

Tuesday, July 21, 2015

- individual travelling to Siegmundsburg*
- 13:00 – 14:00 *Lunch*
- 14:30 – 15:15 **Erich Novak** (Jena)
"A universal algorithm for multivariate integration"
- 15:15 – 15:45 **Robert Kunsch** (Jena)
"On Monte Carlo Methods for High-Dimensional Function Approximation"
- 15:45 – 16:15 *Coffee break*
- 16:15 – 16:55 **Manaf Adnan Salah** (Jena)
"Nonlinear Operator Ideals"
- 17:00 – 17:40 **Kai Kümmel** (Jena)
"An Introduction to Random Dynamical Systems"
- 17:45 – 18:25 **Markus Hansen** (München)
"Learning of Interaction kernels in Dynamical systems"
- 18:30 – 19:30 *Dinner*

Wednesday, July 22, 2015

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:40 **Martin Franců** (Prague)
"Higher-order Sobolev-type imbeddings on Carnot-Carathéodory spaces"
- 9:40 – 10:20 **Helena Gonçalves** (Chemnitz)
"Non-smooth atomic decomposition of 2-microlocal spaces with variable integrability"
- 10:20 – 10:50 *Coffee break*
- 10:50 – 11:30 **Tino Ullrich** (Bonn)
"Hyperbolic Cross Approximation"
- 11:30 – 12:10 **Glenn Byrenheid** (Bonn)
"Sparse grids vs. lattice rules for sampling recovery of mixed Sobolev functions"
- 12:15 – 13:15 *Lunch*
- 13:30 – 18:30 *Hiking tour*
- 19:00 – 20:00 *Dinner*

Thursday, July 23, 2015

- 8:00 – 9:00 *Breakfast*
- 10:00 – 10:45 **Hans Triebel** (Jena)
"Function spaces with dominating mixed smoothness: a survey"
- 10:45 – 11:15 **Marcel Rosenthal** (Jena)
"tba"
- 11:20 – 12:00 **Maryia Kabanava** (Aachen)
"Low rank matrix recovery"
- 12:15 – 13:15 *Lunch*
- 14:00 – 14:40 **Markus Weimar** (Marburg)
"Approximation of embeddings between spaces of Besov type"
- 14:45 – 15:25 **Henning Kempka** (Chemnitz)
"Function spaces with variable exponents"
- 15:30 – 16:00 *Coffee break*
- 16:30 – 18:00 *Football match*
- 18:30 – 20:00 *Dinner*

Friday, July 24, 2015

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:40 **Therese Mieth** (Jena)
"Approximation numbers via bracketing"
- 9:40 – 10:20 **Jan Vybíral** (Prague)
"tba"
- 10:20 – 10:50 *Coffee break*
- 10:50 – 11:30 **Franka Baaske** (Jena)
"Heat and Navier-Stokes equations in supercritical function spaces"
- 11:30 – 12:10 **Christian Richter** (Jena)
"Representation of Ball Convex Bodies in Finite-Dimensional Normed Spaces"
- 12:15 – 13:15 *Lunch*
departure from Siegmundsburg