

# Siegmundsburg Seminar on Analysis & Theoretical Numerics

July 15–17, 2013, Siegmundsburg/Thuringia

## Monday, July 15, 2013

*individual travelling to Siegmundsburg*

- 13:00 – 14:00 *Lunch*
- 14:30 – 15:10 **Benjamin Scharf** (München)  
"How to steer high-dimensional Cucker-Smale systems to consensus using low-dimensional information only"
- 15:15 – 15:55 **Liguang Liu** (Beijing/Bielefeld)  
"A  $B_p$  condition for the strong maximal function"
- 16:00 – 16:30 *Coffee break*
- 16:30 – 17:10 **Wen Yuan** (Beijing/Karlsruhe)  
"Morrey-Sobolev spaces on metric measure spaces"
- 17:15 – 17:55 **Martin Křepela** (Prague)  
"Convolution inequalities in weighted Lorentz spaces"
- 18:30 – 19:30 *Dinner*

## Tuesday, July 16, 2013

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:40 **Lenka Slavíková** (Prague)  
"Sobolev algebras"
- 9:45 – 10:15 *Coffee break*
- 10:15 – 10:55 **Siegfried Beckus** (Jena)  
"Quasicrystals and the Floquet-Bloch theory"
- 11:00 – 11:40 **Henning Kempka** (Jena)  
"Variable Lebesgue spaces"
- 12:00 – 13:00 *Lunch*
- 13:30 – 18:30 *Hiking tour*
- 19:00 – 20:00 *Dinner*

## Wednesday, July 17, 2013

- 8:00 – 9:00 *Breakfast*
- 9:00 – 9:40 **Luboš Pick** (Prague)  
"Sharp higher-codimensional trace theorems for Sobolev functions"
- 9:45 – 10:15 *Coffee break*
- 10:15 – 10:55 **Glenn Byrenheid** (Jena)  
"Smolyak algorithm in  $H^1(\mathbb{T}^2)$  for the approximation of functions with dominating mixed smoothness"
- 11:00 – 11:40 **Philipp Skandera** (Jena)  
"From atoms to wavelets: The  $\varkappa$ -connection"
- 12:00 – 13:00 *Lunch*
- departure from Siegmundsburg*