

## AGENDA – Tuesday, 05.11.2013

Ab 09:30	Welcome and Registration
10:00 - 10:10	Introduction B. Vexler/K. Kunisch
10:10 - 10:25	Moritz Keuthen „Shape Optimization with Geometric Constraints“
10:35 - 10:50	Max Winkler „Error Estimates for Neumann Boundary Control Problems in $H^{-1/2}(\Gamma)$ “
11:00 – 11:20	<b>Coffee Break</b>
11:20 - 11:35	Konstantin Pieper „Locating point sources in parabolic equations“
11:45 – 12:00	Olena Burkovska „A reduced basis method for the valuation of options in the Heston model“
12:10 – 13:30	<b>Lunch</b>
13:30 - 14:30	Rolf Rannacher: „Smoothing property of time-stepping schemes for parabolic problems with irregular data“
14:30 - 15:30	<b>Coffee and Roundtable of PIs/Roundtable of doctoral students</b>
15:30 - 15:45	Felix Henneke „Optimal Control of Quantum Systems“
15:55 - 16:10	Tang Quoc Bao „Reaction diffusion systems modelling asymmetric stem-cell division: existence and convergence to equilibriums“
16:20 - 16:35	Daniel Kraft „A Gradient-Descent Method for Shape Optimisation Based on Level-Sets“
16:45 - 17:00	Martin Holler „Infimal Convolution of Total-Variation-Type Functionals and Applications“
17:10 – 17:25	<b>Coffee Break</b>
17:25 - 17:40	Linus Wunderlich „Different variationally consistent discretizations for Signorini-type problems“
17:50 – 18:05	Matthias Gsell „Domain decomposition methods for nonlinear transmission conditions“
18:15 – 18:30	Gilbert Peralta „Linear and Nonlinear Hyperbolic PDE-ODE Systems: Well posedness and Regularity“
18:40 – 19:30	<b>Dinner</b>
<b>19:30</b>	<b>Roundtable of PIs</b>



# IGDK 1754 – Annual Colloquium 2013

Bildungshaus Mariatrost  
Graz

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## AGENDA – Wednesday, 06.11.2013

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| 09:00 - 09:15 | Moritz Keuthen „Presentation of Altaussee summer workshop“   |
| 09:25 - 09:40 | Elena Gornostaeva „On the Richards Equation with Prandtl-Ishlinskii Hysteresis“                                  |
| 09:50 - 10:05 | Philip Trautmann „Sparsity for the wave equation“  |
| 10:15 - 10:45 | <b>Coffee Break</b>  |
| 10:45 - 11:00 | Bezhad Azmi „A receding horizon framework for stabilization of controlled systems“                               |
| 11:10 - 11:25 | Marco Artina „Lagrangian methods for constrained nonconvex minimizations and applications in fracture mechanics“ |
| 11:35 - 11:50 | Bernhard Kiniger „On the Transmission Problem in Shape Optimization“   |
| 12:00 - 13:30 | <b>Lunch</b>   |
| 13:30 - 13:45 | Jelena Patarcic „Max-Plus Petrov-Galerkin Finite Element Method“   |
| 13:55 - 14:10 | Matthias Lang-Batschnig „Optimal Control of Evolutions with Rate Independence“                                   |
| 14:20 - 14:35 | David Sattlegger „Simulating High-dimensional Quantum Dynamics“  |
| 14:45 - 15:30 | <b>Coffee Break - Roundtable of PIs</b>  |