

The International Graduiertenkolleg 710  
 Schedule for the Annual Colloquium 2008  
 Friday 6th, Saturday 7th February 2009

**Friday, Morning Session**

<b>09:00-09:10</b>	Prof. Bock	Opening and Introduction
<b>09:10-09:25</b>	Andreas Potschka	<i>An inexact SQP method for optimization problems with time-periodic parabolic PDE constraints</i>
<b>09:25-09:40</b>	Dörte Beigel	<i>Towards real-time optimization with PDEs</i>
<b>09:40-09:55</b>	Leonard Wirsching	<i>Multi-Level Iteration Schemes for Nonlinear Model Predictive Control</i>
<b>09:55-10:05</b>	Prof. Gutheil	Introduction
<b>10:05-10:20</b>	Xinguang Cui	<i>CFD Study on the Flow Field and Particle Dispersion and Deposition in the Human Upper Respiratory System</i>

Coffee Break

<b>10:40-10:50</b>	Prof. Dahlhaus <sup>†</sup>	Introduction
<b>10:50-11:05</b>	Konstantin Paraschakis	<i>Phase estimation in time series with (quasi-)periodic components</i>
<b>11:05-11:15</b>	Prof. Langowski	Introduction
<b>11:15-11:30</b>	Christian Fritsch	<i>Diffusion processes in the interphase cell nucleus</i>
<b>11:45-12:00</b>	Jan Wolfgang Krieger	<i>Simulation and Evaluation of Fluorescence Correlation Spectroscopy Data</i>
<b>12:00-12:10</b>	Prof. Heermann/Langowski	Introduction
<b>12:10-12:25</b>	Benoit Knecht	<i>Chromatin fiber simulation using Monte Carlo methods</i>

Lunch Break

<sup>†</sup> Represented by Dr. Johannes

## Friday, Afternoon Session

<b>14:00-14:10</b>	Prof. Bajer	Introduction
<b>14:10-14:25</b>	Kamil Kwiatkowski	<i>Modelling of gas burner - preliminaries</i>
<b>14:25-14:35</b>	Prof. Majewski	Introduction
<b>14:35-14:50</b>	Michal Lopuszynski	<i>Modelling Disorder in Semiconducting Nitride Alloys</i>
<b>14:50-15:00</b>	Prof. Niezgodka	Introduction
<b>15:00-15:15</b>	Karol Wawrzyniak	<i>The Comprehensive Study of Minority Games</i>

Coffee Break

<b>15:35-15:45</b>	Dr. Bessler/Prof. Volpp	Introduction
<b>15:45-16:00</b>	Vitaliy Yurkiv	<i>Heterogeneous chemistry and electrooxidation of carbon monoxide on nickel surfaces: Theoretical Modeling and Experimental Validation</i>
<b>16:00-16:10</b>	Prof. Jäger*	Introduction
<b>16:10-16:25</b>	Martin Heida	<i>Modeling Heat and Water Transport in Permafrost Soil</i>
<b>16:25-16:35</b>	Prof. Smith <sup>†</sup>	Introduction
<b>16:35-16:50</b>	Thomasz Berezniak	<i>Flexibility of a Diels-Alderase ribozyme and effects stabilizing the catalytic pocket</i>
<b>16:50-17:00</b>	Prof. Smith/Reinelt	Introduction
<b>17:00-17:15</b>	Jan-Hendrik Prinz	<i>Optimal use of data in parallel tempering simulations for kinetic models of peptides</i>
<b>17:15-17:25</b>	Prof. Stevens <sup>‡</sup>	Introduction
<b>17:25-17:40</b>	Jan Fuhrmann	<i>Modeling the initiation of cell movement</i>

19:00 Dinner at Apothekenkeller

\* Represented by Dr. Neuss-Radu

<sup>†</sup> Represented by Dr. Imhof

<sup>‡</sup> Represented by Dr. Primi

## Saturday, Morning Session

<b>10:00-10:10</b>	Prof. Cederbaum <sup>†</sup>	Introduction
<b>10:10-10:25</b>	Sören Kopelke	<i>Asymptotic Approximation for the Interatomic Coulombic Decay</i>
<b>10:25-10:40</b>	Axel Lode	<i>Tunneling Dynamics in Open Ultracold Bosonic Systems</i>
<b>10:40-10:50</b>	Prof. Jäger	Introduction
<b>10:50-11:05</b>	Anamaria Bodea	<i>Valuation of swing contracts based on electricity markets</i>
<b>11:05-11:20</b>	Jan Hering	<i>Preprocessing of images with chinese characters for OCR</i>
<b>11:20-11:30</b>		<b>Election</b>

Lunch Break

<b>12:15-12:25</b>	Prof. Rannacher	Introduction
<b>12:25-12:40</b>	Dorotea Dudăs	<i>Vortex Core Line Extraction of 3D Vector Fields Based on Minimal Bending Energy</i>
<b>12:40-12:55</b>	Adrian Hirn	<i>Numerical approximation of the <math>p</math>-Stokes equation</i>
<b>12:55-13:10</b>	Bärbel Janssen	<i>Analysis of a Variant of the Fractional-step Timestepping-scheme. Comparison to Other Schemes and Application to Fluid Flow</i>
<b>13:10-13:25</b>	Thomas Wick	<i>Optimal Control Problems with Fluid-Structure Interaction</i>
<b>13:25-13:40</b>	Winnifried Wollner	<i>Adaptive Methods for Optimal Control of Elliptic PDEs with Pointwise Inequality Constraints</i>
<b>13:40-13:55</b>	Stephan Knauf	<i>Numerical simulation of free-surface flows with application to ball bearings</i>
<b>14:10-14:25</b>	Rebecca Neuman	<i>Spatial aspects in signal transduction</i>

<sup>†</sup> Represented by Dr. Alon