



## Recent Developments in Modeling and Mathematical Analysis of Nanostructures

### 28.-30.11.2008 Weekend Meeting in Bad Herrenalb (Haus der Kirche) KIT Competence Field „Mathematical Models“

The research training group “Analysis, Simulation and Design of Nanotechnological Processes” funded by the DFG (German Research Foundation) is going into its third year.



For a successful strategic planning of future research directions both for the research training group and for our department we will hold this two-and-a-half day meeting in the black-forest resort of Bad Herrenalb close to the city of Karlsruhe. Instead of a large number of individual talks, we concentrate on a small number of overview talks by leading experts. There will be plenty of time allocated for discussions. Each speaker will give 2 one-hour talks.

Speakers (confirmed)	Topic
<b>Christian Lubich</b> (Univ. Tübingen)	Numerics of Hamiltonian Systems
<b>Andreas Prohl</b> (Univ. Tübingen)	Magnetic Microstructures
<b>Ulrich Schwarz</b> (Univ. Karlsruhe)	Nanobiological Phaenomena
<b>Michael Weinstein</b> (Columbia Univ. New York)	Nonlinear Schrödinger Equations
<b>Anatoly V. Zayats</b> (Queen's Univ. Belfast)	Plasmonics/ Surface Plasmon Polaritons

Contact: Prof. Wolfgang Reichel, wolfgang.reichel@kit.edu

### Schedule

Time	Friday, Nov. 28	Saturday, Nov. 29	Sunday, Nov. 30
8:00		<i>Breakfast</i>	<i>Breakfast</i>
9:00-10:00		Hamiltonian Systems (Lubich)	Nonlinear Schrödinger (Weinstein)
10:00–11:00		Hamiltonian Systems (Lubich)	Nonlinear Schrödinger (Weinstein)
11:00-11:30		<i>Coffee Break</i>	<i>Coffee Break</i>
11:30–12:30		Plenary Discussion	Magnetic Microstructures (Prohl)
12:30-14:30		<i>Lunch</i>	<i>Lunch</i>
14:30–15:30	<i>Arrival</i>	Plasmonics (Zayats)	Magnetic Microstructures (Prohl)
15:30-16:00	<i>Arrival</i>	<i>Coffee Break</i>	Final Discussion

16:00 – 17:00	Nanobiological Phaenomena (Schwarz)	Plasmonics (Zayats)	<i>Coffee Break &amp; End</i>
17:00 – 18:00	Nanobiological Phaenomena (Schwarz)	Plenary/Individual Discussion	<i>Guided tour through monastery and church</i>
18:30	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner (Klosterscheuer)</i>
19:30 --	Individual Discussion	Informal evening	

**Saturday evening:** Bad Herrenalb is famous for its hot thermal springs. If you like to relax on Saturday evening in the hot pools of the “Siebentäler Quelle”, bring along your bathing suit and a towel (the pools are open until 10 pm).

**Sunday evening:** for those of us, who are not in hurry, we are planning to go out for an evening meal in the restaurant “Klosterscheuer” in Bad Herrenalb ([www.klosterscheuer.de](http://www.klosterscheuer.de)). Right before there is the possibility to have a guided tour of the old monastery and church.

**Location:**

“Haus der Kirche” (Evangelische Akademie Baden)  
 Dobler Str. 51, 76332 Bad Herrenalb, Deutschland  
 Tel.: 07083/928-0 Fax: 07083/928-601  
 Email: [haus@ev-akademie-baden.de](mailto:haus@ev-akademie-baden.de)  
<http://www.ev-akademie-baden.de/haus/home.htm>

**Directions:**

**By train:**

ICE to Karlsruhe (every hour 6 – 24)  
 via tram (Stadtbahn) S1 to Bahnhof  
 Bad Herrenalb.

8 min. walk from there

**By car:**

from Freiburg/Basel/Straßburg: A5

from Stuttgart/Ulm/München: A8

from Mannheim/Heidelberg: A5/A61

from Karlsruhe: through the  
 Wattkopftunnel into the Alb-valley until  
 Bad Herrenalb. In the village center  
 turn left following the direction to  
 Dobel/Pforzheim.

The weekend meeting is  
 supported by the KIT  
 Competence Field  
 „Mathematical Models“.

