

Mathematics for Semiconductor Heterostructures

Modeling, Analysis, and Numerics

24 – 28 September 2012 • WIAS Berlin • Germany

Scope

The aim of this workshop is to bring together applied mathematicians and scientists from semiconductor physics and to give them the opportunity to discuss analytical and numerical aspects of relevant semiconductor models including the design of efficient numerical algorithms.

Topics

- ▶ Modeling of micro-, nano-, and optoelectronic devices
- ▶ Classical drift-diffusion and energy models
- ▶ Semi-classical and quantum transport models
- ▶ Asymptotic models
- ▶ Organic semiconductors
- ▶ Spintronics
- ▶ Quantum dots, wires, wells, and waveguides
- ▶ Simulation of real-world devices

Speakers

| | |
|--------------------------------|--------------------------------|
| Anton Arnold (Vienna) | Reiner Nürnberg (Berlin) |
| Karine Beauchard (Palaiseau) | Eoin O'Reilly (Cork) |
| Reinder Coehoorn (Eindhoven) | Gernot Paasch (Dresden) |
| Fanny Delebecque (Toulouse) | Vincent Peikert (Zurich) |
| Matthias Ehrhardt (Wuppertal) | Paola Pietra (Pavia) |
| Sylvain Ervedoza (Toulouse) | Olivier Pinaud (Stanford) |
| Klemens Fellner (Graz) | Eric Polizzi (Amherst) |
| Klaus Gärtner (Berlin) | Matteo Porro (Milan) |
| Joseph Jerome (Evanston) | Paul Racec (Berlin) |
| Clément Jourdana (Toulouse) | Nicolas Raymond (Rennes) |
| Thomas Koprucki (Berlin) | Rainer Richter (Munich) |
| Andrea Mantile (Reims) | Holger Rucker (Frankfurt/Oder) |
| Oliver Marquardt (Cork/Berlin) | Riccardo Sacco (Milan) |
| Florian Méhats (Rennes) | Andreas Schenk (Zurich) |
| Alexander Mielke (Berlin) | Siegfried Selberherr (Vienna) |
| Hagen Neidhardt (Berlin) | Gerhard Wachutka (Munich) |
| Francis Nier (Rennes) | Hans Wenzel (Berlin) |

Contact

msh2012@wias-berlin.de
www.wias-berlin.de/workshops/msh2012/

Venue

Weierstrass Institute
Mohrenstraße 39
10117 Berlin

Organizers

Klaus Gärtner (WIAS Berlin)
Annegret Glitzky (WIAS Berlin)
Hans-Christoph Kaiser (WIAS Berlin)
Francis Nier (Université de Rennes 1)

Conference fee

The conference fee of 80€ covers break refreshments, the conference dinner, a guided tour at the Neues Museum and the booklet of abstracts.

Support



**Weierstrass Institute for
Applied Analysis and Stochastics**



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