

Workshop “Nonlinear Dynamics in Modelocked Lasers and Optical Fibers”

Berlin, July 13 - 14, 2006

PROGRAM

**Thursday, July 13th, 2006**

- 11:30 - 12:45 **Registration**
- 12:45 - 13:00 **Opening**
- 13:00 - 13:45 MATTHIAS KUNTZ (Technical University, Berlin)  
*Fundamental and first harmonic mode-locking of quantum dot lasers*
- 13:45 - 14:30 RONALD KAISER (Heinrich Hertz Institute Berlin)  
*Fabrication of mode-locked 40 GHz MQW DBR lasers for applications in optical high speed transmission systems: Potentials and requirements*
- 14:30 - 15:00 ~~PAOLO BARDELLA (Politecnico di Torino, Italy)~~  
~~*FDTD modeling of mode locked QD lasers*~~  
– **TALK CANCELLED** –
- 15:00 - 15:30 **Coffee break**
- 15:30 - 16:15 GUILLAUME HUYET (University College Cork, Ireland)  
*Properties of cw and mode-locked quantum dot semiconductor lasers*
- 16:15 - 17:00 EVGENIY VIKTOROV (Universite Libre de Bruxelles, Belgium)  
*Modeling modelocking dynamics in quantum dot lasers*
- 18:00 **Workshop Dinner at “Georgbräu”**  
Spreeufer 4, 10178 Berlin

## Friday, July 14th, 2006

- 09:15 - 09:45 MINDAUGAS RADZIUNAS (Weierstrass Institute Berlin)  
*Traveling wave modeling of mode-locking in ring lasers*
- 09:45 - 10:30 ERWIN BENTE (Technische Universiteit Eindhoven, The Netherlands)  
*Monolithic modelocked semiconductor ring lasers at 1.5 micrometer*
- 10:30 - 11:00 **Coffee break**
- 11:00 - 11:45 CARSTEN SCHMIDT-LANGHORST (Heinrich Hertz Institute Berlin)  
*Generation and transmission of Terabit/s optical data signals*
- 11:45 - 12:15 UWE BANDELOW (Weierstrass Institute Berlin)  
*Limitations for pulse compression*
- 12:15 - 14:00 **Lunch break**
- 14:00 - 14:45 GÜNTER STEINMEYER (Max-Born-Institute Berlin)  
*Sub-10-fs light bullets in hollow-core fibers and self-guided filaments*
- 14:45 - 15:30 DMITRY SKRYABIN (University of Bath, UK)  
*Nonlinear optics in band-gap fibers: Predictions and observations*
- 15:30 - 16:00 MONIKA PIETRZYK (Weierstrass Institute Berlin)  
*Ultra-short pulses beyond the slowly-varying envelope approximation*
- 16:00 - 16:30 **Coffee break**
- 16:30 - 17:15 HOLGER QUAST (Technical University Berlin)  
*Optical pulse compression using comb-like dispersion profiled fibers*
- 17:15 - 17:45 ERNST-MICHAEL BÖHM (University Rostock)  
*Soliton-radiation beat analysis*
- 17:45 **Closing**