

Mathematical Topics in Electromagnetic Fields and Wave Propagation

07–08.04.2008, SR 11, Bld 20.30

Graduiertenkolleg 1294
Universität Karlsruhe (TH)

Speakers

- Patrick Joly (INRIA Paris–Rocquencourt Research Centre)
Numerical methods for wave propagation in locally perturbed media.
- Monique Dauge (Univ. Rennes)
Regularity and singularities in polyhedral domains:
 - (1) *The Laplace equation*
 - (2) *The Maxwell equations*
- David Lannes (Univ. Bordeaux)
Various mathematical approaches to short pulses modelling.
 - (1) *Ultra short pulses*
 - (2) *Short pulses*
- Panayotis G. Kevrekidis (Univ. of Massachusetts, Amherst)
 - (1) *Solitary Waves and Vortices in the Discrete Nonlinear Schrödinger Equation*
 - (2) *The Many Faces of "Discreteness": Nonlinear Waves in Inhomogeneous Media With Applications in Nonlinear Optics and Bose-Einstein Condensates.*

Programme

Monday

09:30 - 11:00 V1-1 Joly
11:00 - 11:30 Coffee
11:30 - 13:00 V1-2 Joly
13:00 - 14:30 Lunchtime
14:30 - 16:00 V1-1 Dauge
16:00 - 16:30 Coffee
16:30 - 18:00 V2-2 Dauge
18:30 Get together

Tuesday

09:00 - 10:30 V3-1 Lannes
10:30 - 11:00 Coffee
11:00 - 12:30 V3-2 Lannes
12:30 - 14:00 Lunchtime
14:00 - 15:00 V4-1 Kevrekidis
15:00 - 15:30 Coffee
15:30 - 17:00 V4-2 Kevrekidis

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