

Workshop on the Design of Gratings and Inverse Scattering Theory

October 15 – 16, 2009

Graduiertenkolleg 1294, University of Karlsruhe (TH)

Speakers

- Prof. David Dobson (University of Utah, U.S.A.)
- Prof. Rainer Kress (University of Göttingen)
- Dr. Karim Ramdani (INRIA, Université Nancy, France)
- Dr. Tilo Arens (University of Karlsruhe)

Program

Thursday, October 15 (emphasis on gratings):

- 10:00–11:00 Dobson: *Optimization of Electromagnetic Transmission And Resonance Properties in Periodic Structures* (Part 1)
- 11:00–11:30 Coffee break
- 11:30–12:30 Dobson: *Optimization of Electromagnetic Transmission And Resonance Properties in Periodic Structures* (Part 2)
- 12:30–14:30 Lunchtime
- 14:30–15:30 Arens: *Scattering from Bi-Periodic Gratings: The Integral Equation Approach*
- 15:30–18:00 Discussion
- 18:00–?? Get Together

Friday, October 16 (emphasis on scattering):

- 10:00–11:00 Ramdani: *Selective Focusing in 2D Acoustic Waveguides Using Time Reversal*
- 11:00–11:30 Coffee break
- 11:30–12:30 Kress: *Huygens' Principle and Iterative Methods in Inverse Obstacle Scattering*
- 12:30–14:30 Lunchtime
- Afternoon: Discussion