

"Control and optimization problems in mechanics" organized by Ekkehard Sachs

### **Workshops**

Workshop "Control of complex fluids" organized by Roland Griesse, Karl Kunisch, Boris Vexler and Ekkehard Sachs,

October 10 - 14, 2005, Room: HF 136

Workshop "Efficient methods for time-dependent optimal control: preconditioning, reduced order modelling and feedback control" organized by Roland Griesse, Karl Kunisch, Boris Vexler and Ekkehard Sachs,

November 21 - 24, 2005, Room: HF 136

### **KKT-Seminars "Preconditioning of KKT systems" organized by Ulrich Langer, Walter Zulehner and Ekkehard Sachs**

KKT-Seminar 1:

November 2, 2005, Room: HF 136

Ekkehard Sachs: "Preconditioning for Optimization Problems"

Walter Zulehner: "Uzawa-type and Projection-type Methods for Block-structured Indefinite Linear Systems"

KKT-Seminar 2:

November 16, 2005, 13:00 - 16:00, Room: HF 9901

Rene Simon: "Multigrid in Optimal Control: Theory and Numerics"

KKT-Seminar 3:

November 25, 2005, 9:00 - 12:00, Room: HF 136

Roman Stainko: "Phase-Field Relaxation of Topology Optimization with Local Stress Constraints and an Optimal KKT-Solver"

Roman Stainko: "About KKT-Systems Arising from the Minimal Compliance Problem"

KKT-Seminar 4:

November 30, 2005, 13:00 - 15:00, Room: BA 9908

Rene Simon: "Preconditioning of KKT-Systems" (slides, pdf)

Ekkehard Sachs: "Preconditioner for Elliptic Control Problems" (slides, pdf)

KKT-Seminar 5:

December 9, 2005, 9:00 - 12:00, Room: HF 136

Marco Discacciati: "A Stokes-MHD problem"