Leopold-Franzens-Universität Innsbruck



Institut für Informatik
ICT-Gebäude
Technikerstr. 21a
A-6020 Innsbruck
Univ.-Prof. Dr. Otmar Scherzer

MATHEMATIKKOLLOQUIUM

Das Institut für Informatik lädt zu folgendem Vortrag ein:

Dr. Andreas Putz University of British Columbia, Vancouver

Sedimentation Problems in Viscoplastic Fluids: An Experimental Study

We have studied the flow around a sedimenting spherical particle in a Carbopol solution, a fluid which displays viscoplastic behaviour. Laser illumination techniques and Particle Image Velocimetry are used to obtain the velocity fields of a two dimensional cross section of the flow. We will discuss the topological properties of these flow fields and attempt to classify their properties with respect to the relevant rheological quantities.

We will also discuss the differences between the experimentally obtained flow field and numerical calculations based on Bingham or Herschley-Bulkley models. This seminar should be of interest to mathematicians, engineers and physicists, with an interest in the fluid mechanics of complex fluids.

Zeit: Donnerstag, den 8. Februar 2007 um 17:15 Uhr

Ort: Viktor-Franz-Hess-Haus, Technikerstraße 25, HS D

Otmar Scherzer

Gäste sind herzlich willkommen!