

Einladung zum Oberseminar

**Well-posedness and lubrication approximation of the Darcy flow in
the presence of a contact line**

Sprecher: **Dr. Hans Knüpfer**
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Zeit: **Dienstag, 27.11.2012**
15 .00 Uhr (special time)

Ort: **SG 11** (Seminargebäude, Wüllnerstraße 5b)

Inhalt:/Abstract: The propagation of a liquid drop on a plate is characterized by the evolution of the three-phase contact line where air, liquid and solid meet. The region occupied by the liquid is described by a time-dependent domain with non-smooth boundary. We address well-posedness and regularity for models for the evolution of viscous fluids. We focus on certain models for fluid propagation of viscous liquids (Darcy flow, thin-film equation). Since the considered problems do not satisfy a maximum principle, the analysis is based on the dissipative structure of the models.

Interessierte sind herzlich eingeladen.