## 数学与系统科学研究院 计算数学所学术报告

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报告题目:

Modeling and simulation of moving contact line problem for two-phase complex fluids flow

邀请人: 许现民 博士

报告时间: 2015 年 12 月 29 日(周二) 上午 10:00~11:00

报告地点: 科技综合楼三层 311 报告厅

## **Abstract:**

We introduce the sharp interface models for moving contact lines with insoluble surfactants and polymeric fluids. A continuous model with the boundary conditions is derived for the dynamics of two immiscible fluids with moving contact lines and insoluble surfactants based thermodynamic principles. A finite numerical method element developed to solve the coupled partial differential equation. We also discuss the model reduction of the slip model to the no-slip limit by the technique of asymptotic analysis.

## 欢迎大家参加!