

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Barbara Wohlmuth**

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报告题目:

**Variational Inequalities in
Applications**

邀请人: 周爱辉 研究员

报告时间: 2015 年 8 月 6 日 (周四)

上午 9:00- 10:00

报告地点: 数学院南楼七层

702 会议室

Abstract:

In many application fields, such as, e.g., continuum mechanics, option pricing and porous media flow, variational inequalities play an important role. In this talk, we consider several examples and algorithmic components. We stress out the importance of variationally consistent discretizations techniques, stabilized semi-smooth Newton solvers and comment on a priori and a posteriori error estimation techniques. Numerical examples for highly non-linear multi-phase multi-component systems, dynamic frictional contact problems including plasticity and American options illustrate the robustness and flexibility of the proposed techniques.

欢迎大家参加！