## 数学与系统科学研究院 计算数学所学术报告

报告人: Prof. Pengtao Sun

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报告题目:

Numerical Methodologies for Fluid-Structure Interactions and Beyond: Interface Problems

邀请人: 张晨松 副研究员

报告时间: 2017年4月11日(周二)

下午 14:00-15:00

报告地点: 科技综合楼三层

301 小报告厅

## **Abstract:**

In this talk, I will introduce different modeling and numerical methods for fluid-structure interaction (FSI) based upon problems different strategies and solution numerical where, the arbitrary interests, Lagrangian-Eulerian (ALE) method will be introduced first for different motions of structure, then the full Eulerian-phase field method and the domain method will fictitious addressed for cases ALE method cannot handle. Relevant numerical analyses (well-posedness, stability and convergence properties) and realistic applications of FSI problems will be illustrated as well in this talk. My recent research work about the distributed Lagrange multiplier/fictitious domain method for general interface problems will be presented as well.

## 欢迎大家参加!