

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Xinpeng XU**

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报告题目:

**Continuum modeling in multiphase
systems: From drop-substrate, to
particle-fluid, to cell-matrix**

邀请人: 许现民 博士

报告时间: **2014 年 10 月 11 日 (周六)**

上午 10:00-11:00

报告地点: **数学院南楼七层 702**

会议室

Abstract:

In this talk I will present the continuum models in multiphase systems we have developed/employed in the passed few years. These models are being used to deepen our understanding of the statics and dynamics in multiphase systems from drop-substrate, to particle-fluid, and to cell-matrix. I will not only explain the physics and show the results but also present the underlying principles/concepts we have used/explored. Finally, I will briefly show our recent efforts to use coarse-grained continuum concepts to understand the elastic interactions between living animal cells and their extracellular matrices.

欢迎大家参加!