

数学与系统科学研究院
计算数学所定期学术报告

报告人: 杨志坚 教授

(武汉大学数学与统计学院)

报告题目:

**Generalized Irvine-Kirkwood
formulation for the Eulerian
coordinate system**

邀请人: 明平兵 研究员

报告时间: 2016 年 6 月 16 日 (周四)

下午 16:00-17:00

报告地点: 科技综合楼三层
311 报告厅

Abstract:

In this talk, I will introduce how to derive continuum models from atomistic ones within the Irvine-Kirkwood (IK) framework and under the setup of Eulerian coordinate systems, which works for non-crystalline solids as well as fluids. Both mathematical formulation and practical numerical implementation will be discussed. In particular, I will also discuss the relation as well as differences between the IK approaches as the zero/finite temperature Cauchy-Born rule, which works only for crystalline solids. How NS equations can be derived from the IK approach will also be illustrated.

欢迎大家参加！