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：

Comparison of Numerical Solutions for the Boltzmann Equation and Different Moment Models

邀请人： 邸亚娜 副研究员

报告时间：2015 年 10 月 12 日（周一）

下午 15:00-16:00

报告地点： 科技综合楼三层

311 报告厅

Abstract:

The Boltzmann equation is widely used to model rarefied gas flows. However, an accurate solution is often very costly because of bad model properties. Different new moment models have been proposed for the Boltzmann equation during the past few years. We will briefly describe the derivation and the desirable properties of the models and present a 1D test case to compare their accuracy. As the numerical solution poses some challenges, a comparison of various numerical schemes is presented to study the influence on the solution.

欢迎大家参加！