数学与系统科学研究院

计算数学所学术报告

报告人：Prof. Eric T Chung

（ The Chinese University of Hong Kong ）

报告题目：

Adaptive multiscale methods for flow simulations

邀请人：　张文生 研究员

报告时间：2015 年 8 月 14 日（周五）

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, we will present a new adaptive multiscale method for a class of flow problems in heterogeneous media. The method is based on the generalized multiscale finite element method. We propose two types of adaptivity techniques: offline and online. Offline adaptivity allows one to adaptively select basis functions from a set of precomputed basis functions. On the other hand, online adaptivity constructs new basis functions based on the local residuals. We will present some numerical results to show the importance of both adaptivity ideas.

欢迎大家参加！