数学与系统科学研究院

计算数学所学术报告

(定期学术报告)

报告人： 常延贞博士

(ICMSEC 博士后)

报告题目： **Adaptive Immersed Interface Finite Element Method for Elasticity Interface Problems**

报告时间： **2009 年 11 月 11 日(周三)**

下午 4:00—5:00

报告地点： **科技综合楼三层 311**

计算数学所报告厅

Abstract：

The elasticity interface problems which involve partial differential equations having

discontinuous coefficients across certain interfaces are often encountered. However, the low global regularity and the irregular geometry of the interface, the standard numerical methods which are efficient for smooth solutions usually lead to loss in accuracy across the interface. In this talk, we propose self–adaptive finite element methods for solving the elasticity interface problems. The meshes in the methods do not need to fit the interfaces. We establish a residual–based a posteriori error estimate and then error estimators are implemented and tested with promising numerical results.

欢迎大家参加！