数学与系统科学研究院

计算数学所定期学术报告

报告人： 胡俊 教授

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报告题目：

Finite Element Methods of High Order PDEs: Old Stories and New Results

邀请人： 胡齐芽 研究员

报告时间： 2017 年 4 月 27 日（周四）

下午 **16:00-17:00**

报告地点： 数学院思源楼一层

报告厅

Abstract：

In this talk, after I recall classical finite elements of high order partial differential equations, I will present some new results in this direction, including a family of first order H^m conforming finite elements on tensor product grids in any dimension, a family of first order H^m nonconforming finite elements on triangular grids, and two second order H^2 nonconforming finite elements on triangular grids, superconvergence of nonconforming FEMs, and a new theory of error estimates which only assumes the basic H^m regularity of exact solutions.

欢迎大家参加！