

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Gray Cohen**

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报告题目:

**Mixed Spectral Elements for the  
wave equations**

邀请人: 张文生 研究员

报告时间: **2014 年 1 月 8 日 (周三)**

**下午 15:00-16:00**

报告地点: **科技综合楼三层 311**

**计算数学所报告厅**

## **Abstract:**

**Gauss-Lobatto spectral elements, based on hexahedral meshes, provide, in their mixed formulation, a very efficient way to solve transient wave equations in terms of storage and of computational time. Numerical experiments will be provided to illustrate their efficiency. In a second part, we deal with the problem of spurious modes and propose a cheap way to get rid of them. In a third part, we describe different strategies for hybrid meshes composed of hexahedra and tetrahedra, more useful to treat complex geometries.**

**欢迎大家参加!**