

数学与系统科学研究院

计算数学所学术报告

报告人: 段火元 教授

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报告题目:

**Numerical Methods for Maxwell
Equations: A Survey, with Emphasis
on Singular Solutions**

邀请人: 曹礼群 研究员

报告时间: 2017 年 10 月 18 日 (周三)

下午 16:30-17:30

报告地点: 数学院南楼七层

714 教室

Abstract:

I will talk about the several commonly used numerical methods in the numerical solutions of the Maxwell equations: Finite Element Method(Nedelec element method and Lagrange element method); Finite Volume Method; Discontinuous Galerkin Method; Nonconforming element method. The constructions of these methods are simply formulated. Advantages and disadvantages are addressed, with particular emphasis on the singular solutions of non H^1 space. In numerical experiments, I will mainly provide some numerical results using the Lagrange elements for the Maxwell equations in homogeneous or inhomogeneous media.

欢迎大家参加！