

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Zhimin Zhang**

(*Wayne State University, USA*)

报告题目:

**Spectral collocation methods for
integral equations with weakly
singular kernels and Hamiltonian
dynamical systems**

邀请人: 周爱辉研究员

报告时间: **2010 年 12 月 20 日 (周一)**

上午 9: 00~10: 00

报告地点: **科技综合楼三层 311**

计算数学所报告厅

Abstract:

Spectral collocation method are proposed to solve integral equations and integral differential equations of Volterra type and Fredholm type with weakly singular kernels and related eigenvalue problems, as well as Hamiltonian dynamical systems. Both numerical evidence and theoretical analysis indicate that spectral methods are effective and have advantages over traditional \$h\$-version methods.

欢迎大家参加!