

数学与系统科学研究院

计算数学所学术报告

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报告题目:

**Numerical methods for fractional
diffusion-wave equation and its
application**

邀请人: 唐贻发 研究员

报告时间: **2013 年 11 月 14 日 (周四)**

下午 14:00-15:00

报告地点: **科技综合楼三层 311**

计算数学所报告厅

Abstract:

In this talk, I introduce a variable order model for the simulation of waves in computational domain. First, the numerical approximations for fractional derivative with order $1 < \alpha < 2$ are presented. Then, some numerical algorithms for solving fractional diffusion-wave equation based on the previous approximation formulae are developed. At last, numerical results of the classical wave equation and the variable order diffusion-wave equation are compared in computational domain.

欢迎大家参加!