

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Martin Stynes**

( 北京计算科学研究中心 )

报告题目:

**Two numerical methods for a  
Caputo fractional-derivative  
boundary value problem**

邀请人: 谢和虎 副研究员

报告时间: **2014 年 7 月 18 日 (周五)**

**上午 10:00-11:00**

报告地点: 科技综合楼三层 **311**

计算数学所报告厅

## **Abstract:**

**We investigate a linear two-point boundary value problem whose leading term is a Caputo fractional derivative. The problem appears to be simple, but its solution is not well-behaved near one endpoint of the interval, and our interest is in the design and rigorous analysis of numerical methods that take into account this behaviour. To solve numerically the boundary value problem, we present (i) a finite difference method (ii) a spline collocation method.**

**欢迎大家参加!**