数学与系统科学研究院

计算数学所学术报告

报告人： Prof. Hermann Brunner

(Mermorial University of Newfoundland, Canada & Hong Kong Baptist University)

报告题目：

High-order Numerical Solutions for Non-standard Volterra Integro-differential Equations

邀请人： 周爱辉研究员

报告时间： 2009 年 5 月 21 日(周四)

上午 10:00—11:00

报告地点： 科技综合楼三层 301

计算数学所报告厅

Abstract:

We review recent progress and current work on the numerical analysis and computational solution of Volterra-type integro-differential equations, including related functional equations with delay arguments. Intital-value problems for such equations arise, in standard of ``non-standard'' versions, in the mathematical modelling of a brodard range of biological and physical phenomena in which memory effects play an important role. The talk will focus on numerical schemes based on collocation methods or on discontinuous Galerkin methods.

欢迎大家参加！