

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. John Butcher**

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报告题目:

Stability properties of G-symplectic integrators

邀请人: 唐贻发 研究员

报告时间: **2014 年 5 月 6 日 (周二)**

上午 10:45~11:45

报告地点: **科技综合楼三层 311**

计算数学所报告厅

Abstract:

G-symplectic methods are multivalued methods which possess a property similar to, but more general than, the symplectic property. If parasitic growth factors are zero, these methods perform very well and their behaviour with many mechanical problems possessing conservative structures is similar to what would be expected from symplectic Runge-Kutta methods. An analysis of this surprisingly good behaviour will be presented. This gives a partial explanation of why the new methods work as well as they do.

欢迎大家参加!