

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Dr. Christian Lubich**

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报告题目:

**Symmetric multistep methods for
charged particle dynamics**

邀请人: 唐贻发 研究员

报告时间: 2017 年 5 月 26 日 (周五)

下午 16:00-17:00

报告地点: 数学院南楼七层

714 教室

Abstract:

For computing the trajectories of charged particles in an electro-magnetic field, there have recently been a variety of new approaches to derive numerical integrators with good long-time properties. This talk presents results on a new class of explicit symmetric linear multistep methods for such problems, which have recently been shown to preserve the energy well over very long times. The parasitic components of the symmetric multistep method also remain small over such long times.

The talk is based on joint work with Ernst Hairer.

欢迎大家参加！