

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. XINYUAN WU**

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报告题目:

**STRUCTURE-PRESERVING  
ALGORITHMS FOR  
MULTI-FREQUENCY  
OSCILLATORS**

邀请人: 唐贻发 研究员

报告时间: 2013 年 8 月 9 日 (周五)

上午 10: 00~11: 00

报告地点: 科技综合楼 311

计算数学所报告厅

## Abstract:

In this talk I present recent work on structure-preserving integration for multifrequency oscillators by multi-frequency ARKN methods and multi-frequency ERKN integrators. The adjoint schemes for both ARKN methods and ERKN integrators are analyzed. The highorder symplectic and symmetric composition methods are designed based on multi-frequency ARKN methods and ERKN integrators. Energy-preserving conditions for ERKN integrators are derived as well.

欢迎大家参加！