

数学与系统科学研究院
计算数学所网络学术报告

报告人: **Associate Prof. Chun Li**

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报告题目:

KAM theorem, Birkhoff normal form and their applications to geometric numerical integration: a brief introduction

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晚上 19:00-21:00

报告工具: 腾讯会议 (ID: 334 971 387)

Abstract:

We shall review some classical theoretical results on KAM theorem and Birkhoff normal form in finite- or infinite-dimensional Hamiltonian systems. And combining the theory of backward error analysis, many rigorous estimates are obtained in geometric numerical integration. These numerical developments will next be surveyed. Some gaps, in our opinion, between theoretical and numerical analyses, and some further research along this line are also addressed.

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