

数学与系统科学研究院  
计算数学所网络学术报告

报告人: **Prof. Tiezheng Qian**

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报告题目:

**Onsager's Variational Principle: Theory  
and Applications**

邀请人: 许现民 副研究员

报告时间: 2021 年 6 月 4 日 (周五)

上午 10:00-11:00

报告工具: 腾讯会议 ID: (731 100 941)

会议链接:

<https://meeting.tencent.com/s/r256uiWgmbCI>

## **Abstract:**

**In this talk, I will present a review of Onsager's variational principle (OVP), which is of fundamental importance to the linear irreversible thermodynamics. I will start from the Onsager-Machlup theory, which is based on the stochastic dynamics described by the overdamped Langevin equation. I will then focus on OVP and its applications. I will also briefly talk about the minimum action path for the most probable transition pathway in the study of rare events. Finally, some recent applications of OVP to the modelling of active soft matter will be presented.**

**欢迎大家参加！**