

数学与系统科学研究院

计算数学所学术报告

报告人: **Assistant Prof. Zhou Xiang**

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报告题目:

**Recent Development of Numerical
Methods for Transition Path and
Transition State**

邀请人: 许现民 副研究员

报告时间: **2016 年 8 月 18 日 (周四)**

下午 15:00-16:00

报告地点: 科技综合楼三层

311 报告厅

Abstract:

In this talk, I will focus on the study of optimal transition paths and transition bottlenecks for randomly perturbed dynamic system. The large deviation theory based minimum action method and the eigenvector-following based numerical method (gentlest ascent dynamics) for saddle points will be reviewed. These deterministic numerical tools are applicable to non-gradient spatially extended systems and effective to study noise-induced transitions in small noise limit. I might also discuss importance sampling of extreme events for dynamics and static problem very briefly.

欢迎大家参加！