

# 学术报告

报告人：李向东研究员 (中科院数学与系统科学研究院)

报告题目：On  $W$ -entropy formulas for Langevin deformations over Wasserstein space

报告时间：2023年3月10日, 15:30-16:30

报告地点：腾讯会议 893 412 91815

发布平台：哈尔滨工业大学&武汉大学

报告摘要：In this talk, I will briefly review the history of optimal transport problem and Otto's Riemannian structure on the Wasserstein space of probability measures over a Riemannian manifold. Then I will introduce the Langevin deformations which interpolate the heat equation or the porous medium equation and the geodesic flow on the Wasserstein space. The  $W$ -entropy formulas are proved for the Langevin flows. Based on joint works with S. Li, R. Lei and Y.Z. Wang.