

概率论系列报告

报告题目(Title): Stochastic heat equations taking values
in a Riemannian manifold

报告人(Speaker): 朱湘禅 副教授 北京交通大学

时间(Time): 12月11日(周一)下午 3:00-4:00

地点(Venue): 北京大学理科一号楼 1418

摘要(Abstract): In this talk, I talk about the existence of martingale solutions to the stochastic heat equation in a Riemannian manifold by using suitable Dirichlet form on the Riemannian path and loop space. Finally, by using Anderson-Driver's Approximation, we give a form of the equation associated with the process given by Dirichlet form. Moreover, we establish the Log-Sobolev inequality for the stochastic heat equation. In addition, some characterizations for the lower or pinned bounds of the Ricci curvature are presented related to the stochastic heat equation.

欢迎参加