

报告题目: Harnack inequality and long time asymptotics of unbounded additive functionals of regime-switching diffusion processes 报告人: 邵景海 教授 (天津大学) 时间: 2020-08-12 星期三 13:30-14:30 地点: 腾讯会议 ID: 999 829 731 报告摘要: This work provides explicit conditions to establish the dimension-free Harnack inequalities respectively for state-independent and state-dependent regime-switching processes. Then such Harnack inequalities are applied to establish the hypercontractivity of the associated semigroup, and further to study the long time asymptotics of unbounded additive functionals of regime-switching processes. Much effort is devoted to overcoming the difficulty caused by the close interaction between the diffusion processes and the Markov chains in the setting of regime-switching processes. 非线性数学模型与方法教育部重点实验室 中法应用数学国际联合实验室 上海市现代应用数学重点实验室

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