概率论系列报告 Probability Seminar

报告题目(Title): **On the convergence rates of super-diffusion in the periodic Lorentz gas**

报告人(Speaker): 李宋子 Songzi Li (Renmin)

时间(Time):　**2020/12/07 14:00-15:00**

地点(Venue): 理科一号楼 1114 Science Building No.1

摘要(Abstract):

In this talk, we study the convergence rates of super-diffusion in periodic Lorentz gas, which is one of the fundamental models for chaotic diffusion. In their seminal work, J. Marklof and his collaborators proved the Boltzmann-Grad limit of the periodic Lorentz gas, and then obtained a super-diffusive central limit theorem in large times t for the Boltzmann-Grad limit. Based on their work, we derive the convergence rates in Wasserstein distance by applying Stein's method.

欢迎参加

Everyone is welcome.