

概率论系列报告 Probability Seminar

报告题目(Title): **Large Deviations for the intersections of two Random Walks**

报告人(Speaker): Bruno Schapira (Aix-Marseille)

时间(Time): **2020/11/09 14:00-15:00**

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

摘要(Abstract):

In 2004, van den Berg, Bolthausen and den Hollander, obtained in a tour de force a Large Deviation Principle for the intersection of two Wiener sausages.

However, their result was limited to a finite time window. Nevertheless, they conjectured (and provided strong evidence for this) that the same result should hold in infinite time horizon in case of dimension 3 and higher, when Brownian motion is transient. In a series of recent works with Amine Asselah, we proved this conjecture in the discrete setting, when Brownian motion is replaced by a Simple Random Walk on the Euclidean lattice.

In this talk, we will try to explain the main steps of the proof.

欢迎参加

Everyone is welcome.