概率论系列报告

报告题目(Title): Some results about critical values for contact processes in random environments

报告人(Speaker): 薛晓峰 博士 中国科学院大学

时间(Time): 3月28日(周一)下午 3：00-4：00

地点(Venue)：北京大学理科一号楼 1303

摘要(Abstract)：The contact process is an important spin system which describes the spread of an infection disease on a graph. The critical value is the maximum of the infection rates with which the process dies out. It is shown by Liggett in 1980 that the critical value of contact process on lattice Z^d asymptotically equals 1/2d. In recent years, we obtain some results about extending the above conclusion to the case where the process is in a random environment such as a graph with random edge weights or vertex weights. The main tool we use to prove our results is inspired by a technique introduced by Kesten to show the asymptotic behavior of the critical probability of high dimensional percolation model. Part of this talk is based on joint work with Dayue Chen and Yu Pan.

欢迎参加