



中国科学院数学与系统科学研究院应用数学研究所



北京大学数学科学学院



北京师范大学数学科学学院

概率论联合讨论班

题目: Asymptotic regimes of the occupation scheme for multiplicative cascades

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报告摘要: In the classical occupancy scheme, one considers a fixed discrete probability measure $\{\mathbf{p}\} = (p_i: i \in \{\text{cal I}\})$ and throws balls independently at random in boxes labeled by $\{\text{cal I}\}$, such that p_i is the probability that a given ball falls into the box i . In this lecture, we are interested in asymptotic regimes of this scheme in the situation induced by a refining sequence $\{(\mathbf{p})(k): k \in \mathbb{N}\}$ of random probability measures which arise from some multiplicative cascade. Our motivation comes from the study of the asymptotic behavior of certain fragmentation chains.