



北京理工大学

数学与统计学院学术报告

Equivalence of different solutions to double phase equations

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时间: 2023年10月30日 (周一) 下午 4:00-5:00

地点: 文翠楼M233

摘要:

Let $Z_t^{(0,\infty)}$ be the point process formed by the positions of all particles alive at time t in a branching Brownian motion with drift and killed upon reaching 0. We study the asymptotic expansions of $Z_t^{(0,\infty)}(A)$ for $A = (a, b)$ and $A = (a, \infty)$ under the assumption that $\sum_{k=1}^{\infty} k(\log k)^{1+\lambda} p_k < \infty$ for large λ in the regime of $\theta \in [0, \sqrt{2})$. These results extend and sharpen the results of Luidor and Saglietti [J. Stat. Phys, 2020] and Kesten [Stochastic Process. Appl., 1978].

个人简介: 侯浩杰, 北京大学数学科学学院五年级博士生。2019年本科毕业于北京大学。研究方向为分支马氏过程和测度值马氏过程。导师是任艳霞教授。