

# 学术报告

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报告题目：Some inequalities on Riemannian manifolds linking Entropy Fisher

报告时间：2022年12月30日, 14:30-15:30

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**报告摘要：** Consider the critical branching random walk on the  $d$ -dimensional lattice. we are interested in counting the number of particles first arriving at a given sphere. We show that regardless of dimension, this quantity always converges to the exit local time of the integrated super-Brownian excursion. We also present our current attempt with the same local time method to the total number of particles on the sphere, generalizing a proposition of [Le Gall and Lin 2015] to high dimensions, and proposing a conjecture on the convergence to the subordination of the continuum random tree.