



Universität
Basel

Research Project

Critical properties of vacant set of random walk and level sets of Gaussian free field

Project funded by own resources

Project title Critical properties of vacant set of random walk and level sets of Gaussian free field

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Organisation / Research unit

Departement Mathematik und Informatik / Wahrscheinlichkeitstheorie (Cerny)

Project start 01.03.2018

Probable end 28.02.2021

Status Completed

We explore percolation properties of the vacant set of random walk and of level sets of Gaussian free field on various graph in the vicinity of the percolation threshold. The goal is to describe the scaling limit of the largest components of the vacant set as a random metric space constructed similarly as in the Bernoulli percolation case.

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