

Concentration in first-passage percolation

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Resumo/Abstract:

I will revisit known results on concentration of the passage time in FPP on Z^d from the perspective of our recent work with Michael Damron and Jack Hanson. Starting with Kesten's geodesic length estimate, I will show how the entropy method framework yields a simplified proof of Talagrand's gaussian concentration result on a linear scale. I will then explain some aspects of the more recent proof of exponential concentration on scale $|x| \log |x|$.