

# Cluster-size decay for long range percolation

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## Abstract

In this talk we study the cluster size decay in long range percolation on  $\mathbb{Z}^d$ . Long range percolation is a classical model where vertices are connected by an edge proportional to the spatial distance to some negative power  $s$ . In this talk we investigate the asymptotic decay of the probability that the origin is in a finite connected component that is larger than  $k$ .

I present the case when the cluster size decay is driven by surface tension, with a slightly simpler proof than the one that appeared in a recent paper by Dieter Mitsche, Joost Jorritsma, and myself.

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\*Punctual, i.e. sine tempore!