

題目: Divergence of non-random fluctuation in First-passage percolation

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概要: First-passage percolation was first introduced by Hammersley and Welsh in 1965 as a dynamical model of percolation. There are two types of fluctuations in First-passage percolation: the random fluctuation and the non-random fluctuation. They are both important and well studied. Although there has been a significant progress of the upper bound due to the development of concentration inequalities, it is hard to get a non-trivial lower bound because of the lack of techniques. In this talk, we discuss the divergence of the non-random fluctuation and related research.