

Extension of the estimates on the graph diameter for long-range percolation

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The graph diameter for the long-range percolation model is one of the topics which have been well studied from early 2000s, and it is also useful to investigate properties of the random walks on the long-range percolation clusters; for example, the mixing rate of the random walk. In my previous studies, the estimates on the graph diameter for the long-range percolation have been given for the pre-Sierpinski gasket, and the problem for some other fractal lattices as the generalized pre-Sierpinski carpet has been studied. In this talk, we would like to extend the results to the estimates for more general graphs under several conditions.