A remark on the graph diameter for long-range percolation on generalized pre-Sierpinski carpet

Jun Misumi (Kochi University)

We study the long-range percolation on finite graphs; especially estimates on the graph diameter of the long-range percolation cluster. The problem has been studied very well on one-dimensional cycle or the finite box in $\mathbb{Z}^d$. Also, the corresponding problem for the finite subgraph of the pre-Sierpinski gasket has been discussed in my previous study. In this talk, we would like to consider the problem for some other fractal lattices as the generalized pre-Sierpinski carpet.