

Institute for Applied Mathematics, Bonn University

Oberseminar Stochastik

Thursday, 22 April 2021, 17:15

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Some percolations involving Gaussian free fields

Consider a Gaussian process indexed by the vertices of an infinite connected graph G . Does the set of the vertices where this process is higher than a given value, contain an infinite connected subgraph of G ? In case the simple symmetric random walk on G is transient, many authors have treated this question for the Gaussian free field on G . We will present some answers to similar questions involving Gaussian free fields.