

Institut für Diskrete Mathematik

Vortrag im Seminar für Kombinatorik und Optimierung

Dienstag 29.11.2016, 14:15

Seminarraum AE06, Steyrergasse 30, Erdgeschoss

Bootstrap percolation on the binomial random graph $G(n, p)$

TAMÁS MAKAI

(TU Graz)

Bootstrap percolation on a graph, with infection threshold a positive integer r , is an infection process which starts out from a set of initially infected vertices and in each further step every vertex with at least r infected neighbours becomes infected. The process stops once no further vertices can become infected.

We consider bootstrap percolation on the binomial random graph $G(n, p)$, when the set of initially infected vertices has size a , which was investigated by among others by Janson, Łuczak, Turova and Valier (2012). We improve their results by strengthening the probability bounds for the number of infected vertices at the end of the process.

This is joint work with Mihyun Kang.

Mihyun Kang