

# Percolation and jamming of random sequential adsorption samples of large linear k-mers on a square lattice.

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We study behavior of percolation and jamming thresholds for isotropic random sequential adsorption samples by means of numerical simulations. The model with large linear k-mers on a square lattice with periodic boundary conditions is considered. We present a parallel algorithm which is very efficient in terms of speed and memory usage. We investigate the structure of the percolating and jamming states. We generalize the results of [1] for the case of periodic boundary conditions and obtain the ratio of percolation and jamming concentrations for lengths of k-mer up to  $2^{17}$ .

[1] G. Kondrat et al., Phys. Rev. E 96, 022154 (2017).