

POLYMER PINNING IN A RANDOM MEDIUM AS “INFLUENCE PERCOLATION”

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ABSTRACT. In the case of a directed polymer in a random medium, we study the effect of a localized (“columnar”) doping on the localization of the optimal path. The main tool is the use of geometrical ideas to translate the question into a percolation-like problem in one dimension.

Reference: math.PR/0507142. Polymer pinning in a random medium as “influence percolation”. V. Beffara, V. Sidoravicius, H. Spohn, M. E. Vares
<http://front.math.ucdavis.edu/math.PR/0507142>

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