

POLYMER PINNING BY RANDOM POTENTIALS

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ABSTRACT. I will present few recent results concerning the question of directed polymer pinning by random potential, which is localized at one particular space-point (or a hyperplane, or a randomly chosen curve), both, in the absence of bulk disorder and in its presence. During the talk I will discuss issues of critical values for the potential, as well as some important applications to growth models.

Reference: math.PR/0501028 Pinning of polymers and interfaces by random potentials. Kenneth S. Alexander, Vlasdas Sidoravicius (to appear in Ann. Appl. Probab.)

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