A Lower Bound for the End-to-End Distance of Self-Avoiding Walk
Neal Madras

Abstract. For an $N$-step self-avoiding walk on the hypercubic lattice $\mathbb{Z}^d$, we prove that the mean-square end-to-end distance is at least $N^{4/(3d)}$ times a constant. This implies that the associated critical exponent $\nu$ is at least $2/(3d)$, assuming that $\nu$ exists.