

BROWNIAN SURVIVAL AMONG PERTURBED LATTICE TRAPS

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We consider Brownian motion among killing traps attached around randomly perturbed lattice. We derive the annealed asymptotics for the survival probability, which depends on the tail of the random perturbation. From the results, it follows that the asymptotic order approaches to the periodic regime in the weak disorder limit and to the Poissonian regime in the strong disorder limit.