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Three problems on the random walk in Z^d . (In English)

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A simple symmetric random walk in Z^d is considered. The following three functionals are studied and their asymptotic behaviour is analysed:

$R_d(n)$: Largest integer for which there exists a random variable u such that all the points in the ball of radius $R_d(n)$ centered at u are visited by time n ($d \geq 3$).

$\nu_d(n)$: Time needed, after time n , to visit a point not previously visited.

f_n : Cardinality of the set of "favourite values", i.e. sites most often visited by time n .

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Classification:

60F15 Strong limit theorems

60G50 Sums of independent random variables

00A07 Problem books

60J15 Random walk

Keywords:

symmetric random walk