

Zbl 629.60081

**Erdős, Paul; Révész, P.**

*Problems and results on random walks.* (In English)

**Mathematical statistics and probability theory, Proc. 6th Pannonian Symp., Bad Tatzmannsdorf/Austria 1986, Vol. B, 59-65 (1987).**

[For the entire collection see Zbl 625.00018.]

The authors consider the simple, symmetric random walk on the  $r$ -dimensional integer lattice. They present a number of unsolved problems together with the relevant known results; they do not give proofs but provide ample references. Together with the presented unsolved problems they indicate their beliefs on the solvability with existing methods. Among the problems covered are: favourite values, long head-runs, densities (local times) and for  $r > 2$  path-covering problems.

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Classification:

60J15 Random walk

00A07 Problem books

Keywords:

integer lattice; favourite values; long head-runs; local times; path-covering problems