

1086-60-2144

Aaron M Montgomery* (amontgom@uoregon.edu), Department of Mathematics, University of Oregon, Eugene, OR 97403. *Collisions of Independent Random Walks on Graphs.*

We consider the problem of two simple, independent random walks on an infinite graph and ask with what probability the two walks will collide into each other infinitely often. We will discuss strategies for answering this question in the case of a recurrent graph, and will motivate the complexity of the question for transient graphs with a sequence of examples. (Received September 24, 2012)