

EDGE-COVER BY RANDOM WALK

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We show that the time for a random walk to cover all the edges of a graph with m edges is bounded by $2m^2$; if all edges must be covered in both directions, $3m^2$. These results generalize to graphs with edge-lengths (even with infinitely many vertices) and to Brownian motion.

Joint work with Agelos Georgakopoulos.