



THE UNIVERSITY OF
CHICAGO

Department of Statistics

MASTER'S THESIS PRESENTATION

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Three Favorite Sites Occurs Infinitely Often for One-Dimensional
Simple Random Walk

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ABSTRACT

For a one-dimensional simple random walk (S_t) , for each time t we say a site x is a favorite site if it has the maximal local time. In this paper, we show that with probability 1 three favorite sites occurs infinitely often. Our work is inspired by Tóth (2001), and disproves a conjecture of Erdős and Révész (1984) and of Tóth (2001).

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