

ON THE RATE OF CONVERGENCE TO BROWNIAN MOTION OF THE  
PARTIAL SUMS OF INFIMA OF INDEPENDENT RANDOM VARIABLES

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*Abstract:* Let  $\{Y_n, n \geq 1\}$  be a sequence of independent and positive random variables, defined on a probability space  $(\Omega, \mathcal{A}, P)$ , with a common distribution function  $F$ . Put

$$Y_m^* = \inf(Y_1, Y_2, \dots, Y_m), m \geq 1, \quad S_n = \sum_{m=1}^n Y_m^*, n \geq 2, S_1 = 0.$$

In this paper a convergence rate in the invariance principle for the sums  $S_n, n \geq 1$ , is obtained.

**2000 AMS Mathematics Subject Classification:** Primary: -; Secondary: -;

**Key words and phrases:** -

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