

Irada A. IBADOVA

# A MODEL OF MOTION OF TWO INTERACTING PARTICLES

## Abstract

*The paper is devoted to construction and investigation of mathematical models (asymmetric) of  $S = 2$  moving particles on a ring without overtaking with arbitrary parameters. Necessary and sufficient conditions are found when the separately considered particle performs a random binomial motion. A class of distributions of distances between the moving particles is described.*