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ON ONE MODELING ALGORITHM OF RANDOM  
MOVING OF PARTICLES ALONG A RING  
WITHOUT OVERTAKING

Abstract

*The various models of continuous moving of particles along a circle are considered. Two approaches of investigation are suggested:*

*1. The modeling algorithms are described in detail. The developed algorithms of computer modeling as distinct from the other known algorithms essentially lower the modeling time, admit to allow for all lower models and give general principle of approach to such type problems.*

*2. Along with modeling method on computer by analytical approach for stochastic systems, the class of probable states which may contain the system, is described. The optimal number of particles minimizing mean wait of particles at set point is found.*