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SYMMETRIC MODEL OF MOTION OF PARTICLES ON A CIRCLE

Abstract

In the paper symmetric motion model of particles on a circle without over-taking that has a great importance in transport systems is considered. Existence of stationary mode for the considered problem is shown. It is proved that in stationary mode all the particles move by the same parameter for one step. A counter example that proves that in stationary mode the particles don't walk by a binomial law is given.