STATIONARY STATES IN A 1D SYSTEM
OF INELASTIC PARTICLES

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S u m m a r y

The existence conditions of asymptotic quasistationary states are found for a one-dimensional open system of inelastic particles. The influence of initial and external conditions on the structure of such states and transitions between them is investigated. The theoretical and numerical calculations are compared to the data of the direct physical experiment. The possibilities to apply the methods of statistical physics to the study of open systems (in particular, granulated materials) close to the discovered quasistationary states are discussed.