

THE KINETICS OF GRANULAR SEGREGATION

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S u m m a r y

An analytical model of the radial segregation in driven containers filled by a dry granular mixture, which exhibits phenomena as a non-equilibrium phase transition to an asymptotically metastable stationary state (steady state) is developed. Nonlinear equations of motion for the relevant order parameter have been solved exactly in quasi-linear approximation in the vicinity of a steady state. The theoretical results obtained are in a good enough qualitative agreement with the experimental data.