

Global evolution of general-relativistic gaseous systems with controllable boundary conditions

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Abstract

The solutions of the general-relativistic kinetic equation for bounded gaseous systems are studied. It is shown that the processes induced by the field of a gravitational wave are irreversible. A method for describing theoretically the process of controlling the behavior of the system as a whole is given for the case of diffuse reflection of particles at the boundaries. © 1991 Plenum Publishing Corporation.

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