



Dipartimento di Scienze Matematiche
Politecnico di Torino



Colloquium

Il giorno giovedì 14 marzo, alle ore 14 in Aula Buzano, la Professoressa

Laure Saint-Raymond

dell'École Normale Supérieure di Parigi, terrà la conferenza dal titolo

The irreversibility in gas dynamics, a matter of probability

Abstract. The goal of this lecture is to present a derivation of the Boltzmann equation starting from the hamiltonian dynamics of particles in the Boltzmann-Grad limit, i.e. when the number of particles $N \rightarrow \infty$ and their size $\varepsilon \rightarrow 0$ with $N\varepsilon^2 = 1$. We will especially discuss the origin of irreversibility and the phenomenon of relaxation towards equilibrium, which are apparently paradoxical properties of the limiting dynamics.

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