

« ATELIER SUR LES RELATIONS DE FLUCTUATION ENTROPIQUE EN MATHÉMATIQUES ET PHYSIQUE »
29 OCTOBRE AU 2 NOVEMBRE 2018

“WORKSHOP ON ENTROPIC FLUCTUATION RELATIONS IN MATHEMATICS AND PHYSICS”
OCTOBER 29 - NOVEMBER 2, 2018

The Kac model and non-equilibrium statistical mechanics

Frederico Bonetto *

bonetto@math.gatech.edu

We study the evolution of a system of N particles (modeled by the Kac master equation) in contact with a thermostat or with a finite heat reservoir with $M \gg N$ particles initially in equilibrium. We discuss and compare various notions of approach to equilibrium.

*School of Mathematics, Georgia Institute of Technology , 686 Cherry Street, Atlanta, GA 30332-0160, USA