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Fourier Law from a Dynamical Systems point of view

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The derivation of macroscopic laws from microscopic ones is an outstanding problem in the field of Non-Equilibrium Statistical Mechanics. I will explain the problem in the case of the derivation of the Fourier law and illustrate some simple examples in which it is possible to obtain some (partial) result. Along the way I will use (and illustrate) some recent techniques in the field of Dynamical Systems.

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