

# On entropy production in quantum statistical mechanics I

*jeudi 14 mars 2024 15:00 (1 heure)*

This talk and the following one form a series.

In this first talk we review the notion of entropy production of classical dynamical system based on the phase space contraction rate and discuss classical Evans-Searles and Gallavotti-Cohen fluctuation theorems. The passage to quantum mechanics by direct quantization of phase space contraction rate via modular theory runs into difficulties that will be described in the second part.

**Orateur:** JAKSIC, Vojkan (McGill University)