

Entropy Production and Two-Time Measurement Protocol of Markovian Quantum Dynamics

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We provide an expression of the entropy production associated to a Markovian quantum dynamics defined by Lebowitz and Spohn, in terms of the two-time measurement protocol of the entropy observable, according to Kurchan. We do so under the detailed balance condition and, as a byproduct, we show that the probabilities of outcomes of two-time measurements are given by a continuous time Markov process determined by the Lindblad generator of the Markovian quantum dynamics.

This is joint work with C.-A. Pillet.

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