

# Gaussian Quantum Markov Semigroups and Entangled Stationary States

*mercredi 13 mars 2024 11:00 (1 heure)*

We first introduce GQMS, describe the GKLS structure of their generators and briefly discuss their structure and some issues related with invariant states. Then we consider some special 2-mode system with quadratic Hamiltonian in creation and annihilation operators in which each mode interacts with a reservoir.

We show that any initial state converges to a certain stationary state whose the partial trace on the 2-mode system is entangled if the two reservoirs have small enough temperatures.

This talk is based on a joint work with A. Dhahri, D. Poletti and H.J. Yoo.

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