ID de Contribution: **36** Type: **Non spécifié**

Bethe ansatz solution for a new integrable open quantum system

mercredi 29 juin 2022 11:00 (20 minutes)

In nature, the interaction of a system with the environment cannot be avoided. If the response of the environment is Markovian, the density matrix will evolve through the Lindblad Master equation: dependent on the Hamiltonian of the system and a jump operator describing the coupling to the environment. In PRL 126.24 (2021): 240403, we gave a partial classification of Yang Baxter Integrable interacting systems, including several new models with interesting features. In this talk, I will focus on one of the models (model B3): I will give the analytical expression of the Non Equilibrium steady states and also its physical properties. I will also show how to solve this model via the nested Algebraic Bethe Ansatz method.

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