

INFN Sezione di Trieste & Dipartimento di Fisica

Joint Seminar

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Tuesday April 19, 2016 – 3:00 PM - room 204, 2nd floor
Dip. di Fisica – Strada Costiera, 11 – Trieste

SUFFICIENT CONDITIONS FOR MEMORY KERNEL MASTER EQUATION

Abstract

The talk presents basic introduction to memory kernel master equations. I provide sufficient conditions for the memory kernel which guarantee legitimate (completely positive and trace-preserving) dynamical map. It turns out that these conditions provide a natural parameterizations of the dynamical map being a generalization of Markovian semigroup. It is shown that this class of maps covers many well known examples -- from Markovian semigroup, semi-Markov evolution up to collision models and their generalization.

Organizzazione a cura di: prof. F. Benatti