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CP reduced dynamical maps and initial correlations

Abstract: A framework for the construction of completely positive reduced dynamical maps, describing the evolution of an open quantum system interacting with an environment, will be outlined. This approach allows one to consider not only factorized initial states, but also composite states with classical correlations, namely zero quantum discord states. The limitations and main features of such constructions will be presented. Info: The aim of the talk is to present the main ideas of <http://www.nature.com/articles/srep37328>