

Indirect Controllability of Two Interacting Qubits in the Presence of Dissipation: A First Analysis.

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We consider a bipartite open quantum system consisting of two interacting qubits, denoted by A and B , respectively. We assume that qubit A is coupled to the environment and is directly affected by coherent control, while qubit B does not interact directly with the environment and the control fields. We are interested in the controllability properties of subsystem B .

We provide a first analysis of the problem and give some negative answers.

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