

Simulation for two coupled qubits system with IBM-Q

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It has been known that single qubit gates together with CNOT gate can be used to construct any unitary operation for n qubits system. Thus, the quantum circuit model is natural platform for quantum simulation. In this work, I present a simple way to implement two coupled qubits system with IBMQ quantum processor and test the non-Markovianity for the reduced dynamics for one of these two qubits via temporal steering technique.