

Systems and Methods for Imposing Quantum Control on a Quantum Computer using Generated Electromagnetic Pulses

Abstract

- 5 A heterogenous computing platform approach is proposed herein where a classical computer is configured to control a physical quantum pulse generation circuit to precisely manipulate quantum states of a quantum computer system using controlled magnetic pulses, driving the quantum computer system into a target state using a frequency-domain based harmonic-analytic approach.

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Fig. 2