

Spectroscopy of cascade multiresonator quantum memory

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Abstract

© 2018, Institution of Russian Academy of Sciences. All rights reserved. We study spectral properties of a cascaded multiresonator microwave quantum memory integrated into a waveguide-resonator system. On the basis of experimental data, we reconstruct the internal parameters of the circuit under study, give estimates of quantum efficiency, and show the possibility of achieving optimal conditions for its realization.

<http://dx.doi.org/10.18287/2412-6179-2018-42-4-614-619>

Keywords

Cascade multiresonator quantum memory, Microwave quantum memory, Quantum informatics, Resonator

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