System And Method For Quantum Computation Using Symmetrical Charge Qubits

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The Invention

A quantum computing system and method for performing quantum computation is provided. In some aspects, the system includes at least one charge qubit comprising a quantum dot assembly prepared with a symmetric charge distribution, wherein the symmetric charge distribution is configured to reduce a coupling between the charge qubit and a charge noise source. The system also includes a controller for controlling the at least one charge qubit to perform a quantum computation. The system further includes an output for providing a report generated using information obtained from the quantum computation performed.

Additional Information

For More Information About the Inventors

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Tech Fields

- Information Technology : Hardware

For current licensing status, please contact Emily Bauer at emily@warf.org or 608-960-9842