

## Bosonic Operator Realization of Hamiltonian for a Superconducting Quantum Interference Device

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**Abstract:** Based on the appropriate bosonic phase operator diagonalized in the entangled state representation we construct the Hamiltonian operator model for a superconducting quantum interference device. The current operator and voltage operator equations are derived.

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**Key words:** superconducting quantum interference device, Hamiltonian operator model, current operator and voltage operator equations

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