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problem in quantum mechanics is the problem of how (or whether) wave function collapse occurs. The inability to observe such a collapse directly has given rise to different interpretations of quantum mechanics and poses a key set of questions that each interpretation must answer.

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starts with a demonstration of how, in these electrodynamic systems,

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both the

superconducting gap

and the long-range

Coulomb interactions

contribute to the

existence of collective

modes that have

extremely low

dissipation and that can

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can speed up this

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process by a factor of

four with the help of

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Their approach to the

automatic measurement

and control of qubits

therefore represents a

key step toward their

large-scale application.



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Machine Learning to  
Automatically Measure  
and Control Qubits  
Other engineered  
quantum systems based  
on natural, rather than  
artificial, degrees of  
freedom can also  
qualify as quantum  
machines: trapped ions,  
single Rydberg atoms in  
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whose fluctuations are

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quantum algorithm is a

step-wise procedure

performed on a

quantum computer to

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solve a problem, such as searching a database. Quantum machine learning software makes use of quantum algorithms to process information. Quantum algorithms can in principal outperform the best known classical algorithms when solving certain problems. This is



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However, while

quantum mechanics

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freedom are intrinsically quantum mechanical. Of course, every machine is made of atoms and its microscopic degrees of freedom (the electrons and nuclei) are intrinsically quantum. Atomic physicists have developed remarkable optical techniques to control these ...

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