

# Quantum Machines Measurement Control Of Engineered Quantum Systems Lecture Notes Of The Les Houches Summer School Volume 96 July 2011

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BRAND NEW, Quantum Machines: Measurement and Control of Engineered Quantum Systems: Lecture Notes of the Les Houches Summer School: Volume 96, July 2011, Michel H Devoret, Benjamin Huard, Robert Schoelkopf, Leticia F Cugliandolo, This book gathers the lecture notes of courses given at the 2011 summer school in theoretical physics in Les

#### **Introduction to Quantum Control with a Focus on ...**

of quantum control Section III explains the models currently guiding measurement feedback quantum control Section IV analyzes some of the results recently found in measurement feedback quantum control Section V concludes the paper II Background Quantum control is a product of both

quantum mechanics and control theory Classical control

### **Quantum Feedback Control**

quantum computation and precision measurement If we are to apply the concepts and methods of feedback control theory to quantum dynamical systems, we must not only extend classical control concepts to new regimes but also analyze quantum measurement in a way that is useful for control systems The Evolution of Control Theory Controlling

### **Quantum Machines Measurement Control Of Engineered ...**

Quantum Machines Measurement Control Of Engineered Quantum Systems Lecture Notes Of The Les Houches Summer School Volume 96 July 2011 Author: 1x1pxme-2020-10-12T00:00:00+00:01 Subject: Quantum Machines Measurement Control Of Engineered Quantum Systems Lecture Notes Of The Les Houches Summer School Volume 96 July 2011 Keywords

### **Accurate Qubit Control with Single Flux Quantum Pulses**

quantum computer that will outperform the best available classical machines will require thousands if not millions of physical qubits, and the wireup and control of a large-scale quantum processor presents a formidable technical challenge It is highly desirable to integrate as much of the control and measurement circuitry as possible in the

### **Journal of Physics A: Mathematical and Theoretical PAPER ...**

Quasi-autonomous quantum thermal machines and quantum to classical energy flow-This content was downloaded from IP address 207461359 on 09/10/2020 at 16:13 1 The role of measurement in quantum feedback control has also been studied to show the effect of coherence [18] and the efficient measurement for work extraction

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### **Reliability Modeling of NISQ-Era Quantum Computers**

After measurement, the probability of this qubit being in  $|j_0\rangle$  state is  $j_1^2$  and  $j_2^2$  A qubit state can also be represented as a vector  $|j\rangle =$  With this form of expression, a quantum gate is usually represented as a unitary matrix  $U$  The operation of a quantum gate on the qubit is computed by multiplying the matrix representing the gate with

### **Student User Experience with the IBM QISKit Quantum ...**

Quantum computers, machines that operate on And finally, measurement of information contained in qubits must be possible [3] A machine that meets these criteria is classified as a quantum computer control qubits in order to execute quantum operations [11]

### **quantum thermometry - arXiv**

properties of continuous quantum thermal machines A continuous quantum thermal machine, which usually consists of a two (or few)-level system (TLS) perpetually coupled to two thermal baths, is known to be capable of working both as a quantum heat engine and quantum refrigerator [6, 13, 20] The mode of operation is deter-

### **Curriculum Vitae Jack Gwynne Emmet Harris**

Measurement of the motional sidebands of a nanogram-scale oscillator in the quantum regime, Physical Review A : 92, 061801(R) (2015) 3 : in Quantum Machines: Measurement and Control of Engineered Quantum Systems, Lecture Notes of the Les Houches Summer School : 96, Oxford

University Press (2014)

**arXiv:1912.06938v2 [quant-ph] 20 Dec 2019**

elements Highly coherent quantum systems consisting of 50 or more individually addressed quantum elements have been created with superconducting circuits, trapped ions, and atom arrays Recent improvements in materials, engineering, quantum control, measurement, and environmental isolation are opening new directions of study in these systems

**A quantum speedup in machine learning: finding an N-bit ...**

May 09, 2014 · A quantum speedup in machine learning: finding an N-bit Boolean function for a classification Seokwon Yoo<sup>1,2</sup>, Jeongho Bang<sup>2,1</sup>, Changhyoup Lee<sup>3,1</sup> and Jinhyoung Lee<sup>1,2</sup> <sup>1</sup>Department of Physics, Hanyang University, Seoul 133-791, Korea <sup>2</sup>Center for Macroscopic Quantum Control & Department of Physics and Astronomy, Seoul National University, Seoul, 151-747, Korea

**Quantum Bayesian approach to circuit QED measurement**

Quantum Bayesian approach to circuit QED measurement A N KOROTKOV Department of Electrical Engineering University of California Riverside, CA 92521-0204, USA Quantum Machines: Measurement and Control of Engineered Quantum Systems Edited ...

**Report of the DOE Roundtable held February 25, 2016**

This is a report of a Roundtable that was held on February 25, 2016, at the Hilton Gaithersburg, MD The Roundtable was approved by the DOE Office of Science Associate Directors Jim

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