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Superconducting Qubits And The Physics Of Josephson Junctions 3 F L F R V I J Figure 1. Schematic Diagram Of A Josephson Junction Connected To A Bias Voltage V. The Josephson Current Is Given By IJ = I0 Sin-, Where - = L i R Is The Di Jan 10th, 2024

#### A Cryogenic Interface For Controlling Many Qubits

Quantum Algorithms Applications Classical Compute Quantum-Classical Interface High-Speed Digital Digital Triggers Analog Signals Readout Resonators DAC RT 4K 100 MK Readout Transceiver ADC DAC FPGA Qubits RT Control Power SPI CMOS 5mm Mixing Chamber Cryo-CMOS Qubit PCB C D A B 200 M 1mm E FIG. 1. The Quantum Jun 4th, 2024

#### Model For L/f Flux Noise In SQUIDs And Qubits\*

DC SQUIDs:  $1/f\beta$ Flux Noise Nb Washer T = 90 MK • Wellstood, Urbina And Clarke (1987) Investigated 12 SQUIDs, Using A Second SQUID To Measure The 1/f Noise. •

Flux Noise And Critical Current Noise Separated U Jan 6th, 2024

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Laughlin Wave Function Is A Good Model. Enigma Of =5/2 FQHE R. Willett Et Al Discovered =5/2 In1987 • Moore-Read State, Wen 1991 • Greiter-Wilczek-Wen 1991 • Nayak-Wilczek 1996 Jan 22th, 2024

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