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An Introduction to Google Quantum AI & Quantum Computing

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Thursday, April 10, 2025
11:10 am - 12:00 Noon
Building 33, Room 286
Pizza will be served!

Abstract: Google Quantum AI focuses on building superconducting quantum computers to solve complex problems. Quantum computing offers a unique advantage to solving certain algorithms using the exponential nature of qubit scaling. One of the biggest challenges in quantum computing is creating qubits with low enough error rates such that the results of solving complex computations are accurate. Recent improvements in quantum processor development have shown that it is possible to combine multiple physical qubits together to form a logical qubit with a lower error rate than an individual physical qubit.

Bio: I attended Cal Poly SLO as an EE major from 2013-2017. After graduating, I went up to the Bay area and worked as an electrical engineer for Anritsu company for six and a half years developing high frequency test equipment. I was recruited to Google QAI, as a senior hardware engineer, to assist in the engineering and manufacturing development of the quantum computing systems as they scale up in qubit count and complexity. I have lived in California almost my entire life and enjoy the outdoors and going on hikes and seeing friends.