

Title: Beyond-classical computing

Abstract:

I'll review what is the current state of quantum computing with superconducting qubits. I'll explain several experiments from Google's Quantum AI group, including an article published in Nature in 2019 in which we carried out a computational task on an experimental quantum processor vastly outperforming current supercomputers. I will conclude with various projections on the expected advances in quantum computing in the next ten years.