

Title:

QuEra Computing: Leading Quantum Innovation with Neutral Atoms

Abstract:

QuEra Computing is the leader in commercializing quantum computers using neutral atoms, recognized as a highly promising quantum modality. Based in Boston and built on pioneering research from Harvard University and MIT, QuEra operates the world's largest publicly accessible quantum computer, available over major public cloud platforms and for on-premises delivery. QuEra is advancing large-scale, fault-tolerant quantum computing solutions designed to tackle classically intractable problems. Recent breakthroughs—both theoretical and experimental—have shown how QuEra's neutral atom technology can dramatically speed up and simplify the core building blocks of fault-tolerant quantum computing. These include new protocols for executing reliable quantum logic with minimal overhead, and the first demonstration of high-fidelity magic state distillation using logical qubits. Together, these advances mark important steps towards practical, scalable quantum computers capable of solving real-world problems beyond the reach of today's machines. Join us to explore these advancements which is making QuEra the partner of choice in the field of quantum computing.