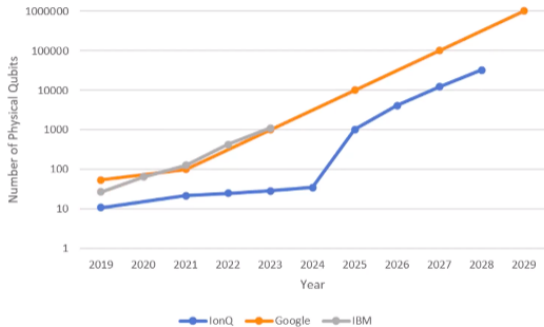
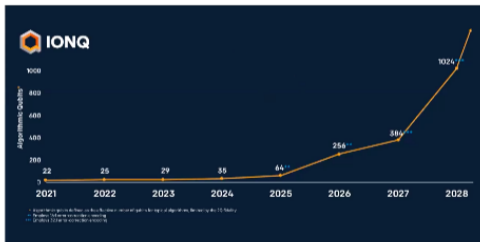
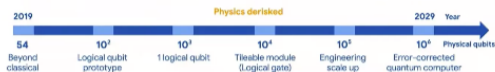


Hardware comparison: vendor roadmaps

~2020?



Google AI Quantum hardware roadmap



- IonQ, Google, and IBM are all predicting ~1000 physical qubits in either 2023 (Google/IBM) or 2025 (IonQ).
- IonQ is predicting ~32,000 physical qubits in 2028. Google is predicting 1,000,000 physical qubits in 2029, and IBM does not make a concrete prediction this far out.