Our Quantum Roadmap

Pasqal

2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 ›

HARDWARE PRODUCTS
On-Premises & Cloud

Orion

- Alpha: 100+ qubits, ±3M gates
- Beta: 100+ qubits, 5M gates, On-prem
- Gamma: 140+ qubits

Vela
200+ qubits
First Quantum Advantage

Centaurus
Analog
& Early FTQC

Lyra
Analog
& impactful FTQC

HARDWARE R&D

Physical qubits	200	1,000		10,000		
Per-step fidelity		95%	99%	99.5%		99.9%
Features	Z add	Zoning	In-circuit readout	In-circuit reloading	Fast decoder	Large-scale operations
			10+ PIC-enabled parallel 1Q gates		100+ PIC-enabled parallel 2Q gates	
					Full adressability	
Logical qubits		2		20		200
Logical fidelity		95%	98%	99.9%		99.999%
				BREAK EVEN		MEGAQUOPS

ALGORITHM & ACCELERATED LIBRARIES

Quantum application	Quantum Advantage on quantum matter	Quantum Advantage on optimization & Machine Learning

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