

QUANTUM COMPUTERS

The International Year of Quantum Science and Technologies 2025 is coming to an end, but that doesn't mean the topic is losing its relevance. Quantum computers promise unparalleled computing power that eclipses even the best supercomputers. Various companies and research institutions around the world are trying to tame the smallest particles and regularly outdo each other with "groundbreaking results" and "unparalleled breakthroughs."

It's not easy to keep a cool head here. Quantum physics has a reputation for being completely incomprehensible, and it regularly confuses people with seemingly paradoxical thought experiments that do not fit into the worldview of classical physics. This special issue is intended to help readers find their way around the world of quantum physics.

TOPICS

Fundamentals

- Quantum glossary: state, superposition, entanglement, uncertainty, probabilism, Schrödinger equation
- Fundamentals of quantum computing: What are qubits, how are they described mathematically, and what are quantum gates?
- Applications: What are quantum computers used for?

Status Quo

- Overview of different qubit architectures and current state of development
- Focus on three approaches: superconducting qubits, photonic quantum computers, topological qubits

- Benchmarking: How do you compare quantum computers?
- A quantum ecosystem emerges
- Mobile quantum computers

Practice & programming: Your first quantum code

- Qiskit
- Q#
- Silq

The quantum threat: Rethinking IT security

- Why quantum computers threaten modern encryption

- Assessing the threat using the financial sector as an example
- Quantum-secure cryptography: Processes and methods explained
- Quantum tokens for a forgery-proof handshake

Creative quanta: Unusual approaches to a complex topic

- Gamification in quantum physics
- How a composer sets the quantum world to music
- Three quantum book recommendations
- Story: A quantum bit of luck

DATES

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Feb 10, 2026

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