



SPECTRUM

THE QUANTUM SWITCH

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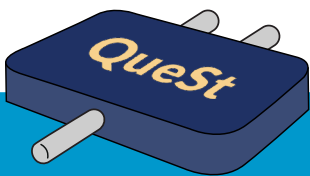
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On a QueSt to accelerate Quantum Computer development

Quantum computers can spur the development of breakthroughs in science and technology, tackling problems that today's computers cannot handle.

Unfortunately, the low number of qubits that hardware can support and the large number of required cables are preventing the technology from making a bigger market penetration. The EU-funded SPECTRUM project will develop a technology to simplify the control over multiple qubits through the same cable.



Network switch for QC

The switch bridges the connection from classical electronics outside of the cryostat to the qubits on the inside, to be able to route signals to and from the qubits in a versatile and programmable way.

Advantages



Integrates with classical electronics as well as quantum processors.

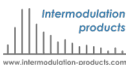


- Minimal heating.
- Fewer expensive cables needed.



- Rapid switching rate.
- Wide frequency range.

Project partners



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