

SpinQubit7

The 7th International Conference on Spin-Based Quantum Information Processing

Delft, the Netherlands
13 – 17 July 2026

CONFERENCE GUIDE

SpinQubit7

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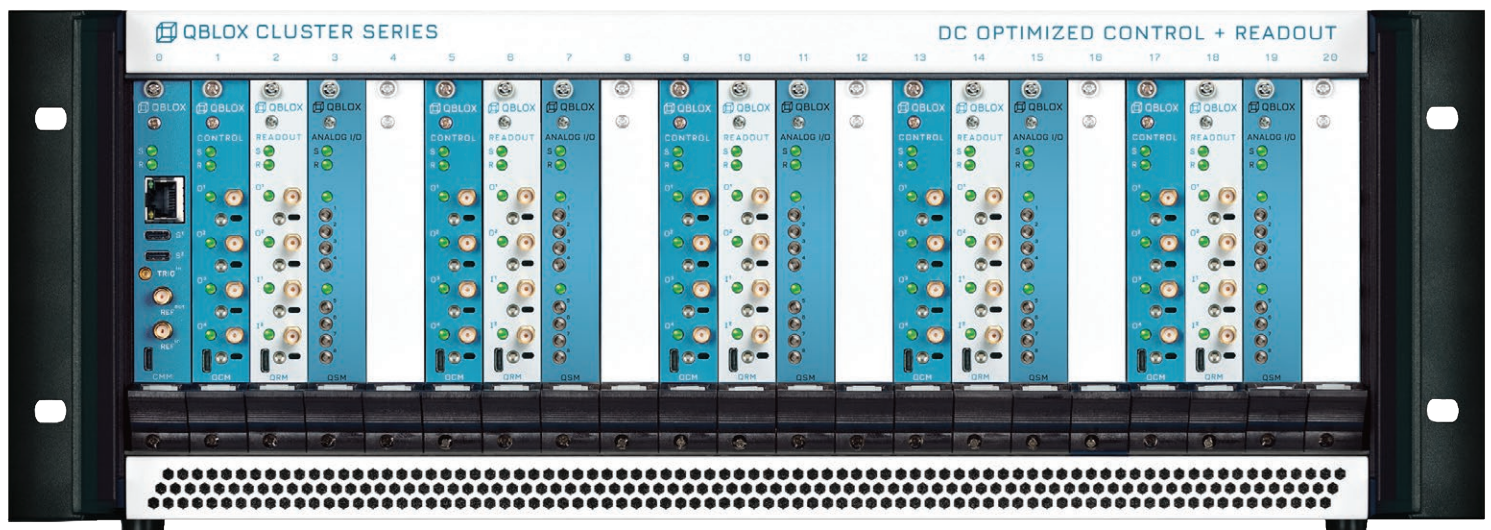
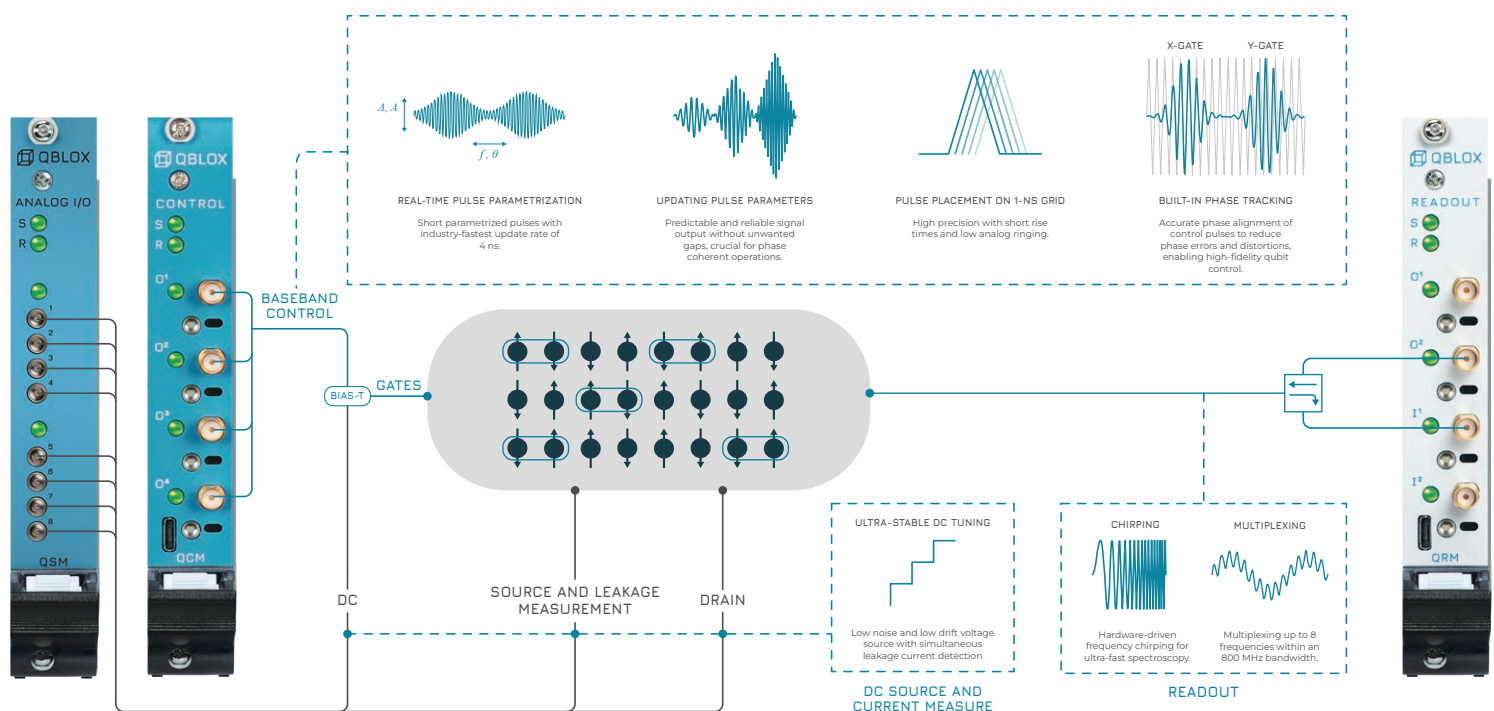


Fully Baseband Control and Readout

The Qblox DC Optimized Cluster

Visit the Qblox booth for a live demonstration of a complete baseband spin-qubit control and readout in a single mainframe,

- Fast scalable feedback
- Automated sweet-spot stabilization
- Low-noise performance
- Simplified scaling

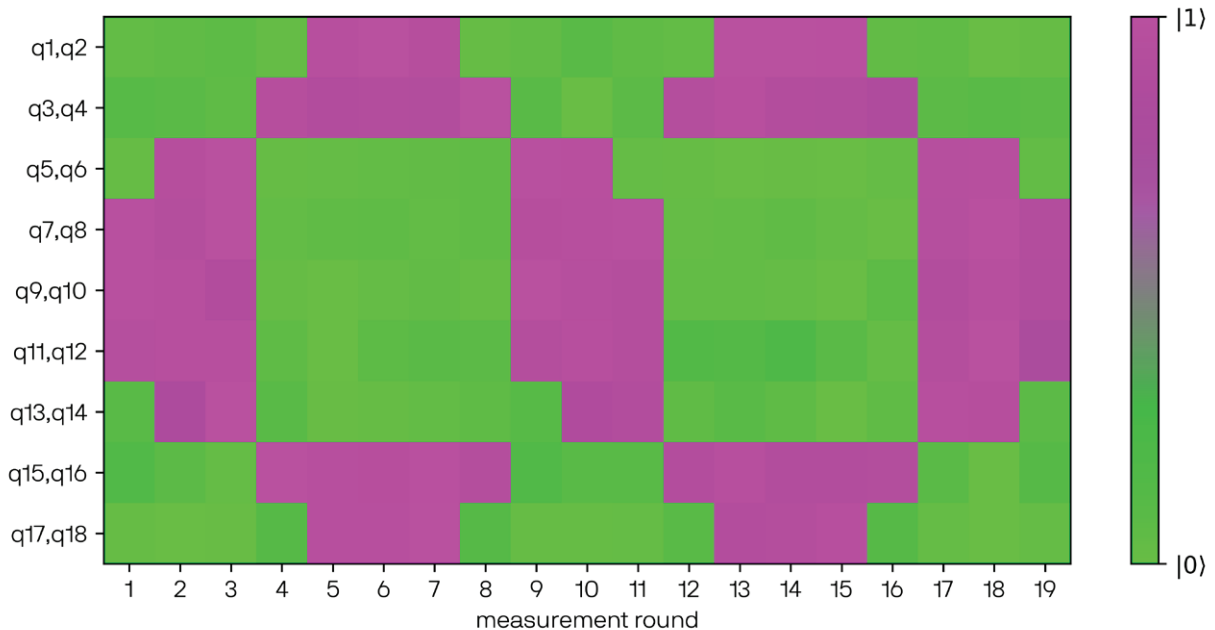


Join us for Spin Up Summer Fest at Qblox HQ
Thursday 16 July < SQ7_After_Hours // BBQ + Drinks + DJ >

ABOUT THE CONFERENCE

The 7th Conference and Workshop on Spin-Based Quantum Information Processing (Spin Qubit 7) brings together world-leading researchers from the field of solid-state, spin-based quantum information processing to participate in a 5-day conference and workshop based in Delft, Netherlands.

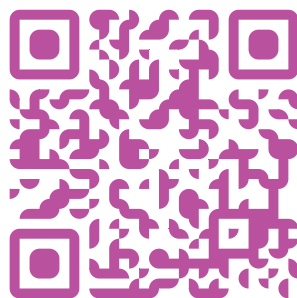
The conference covers different spin-based quantum bit implementations such as donors in silicon, gate-defined quantum dots in GaAs, SiGe and SiMOS, holes and Ge hole gases and Ge nanowires. There will also be some focus on fabrication, algorithms and cryogenic control electronics.



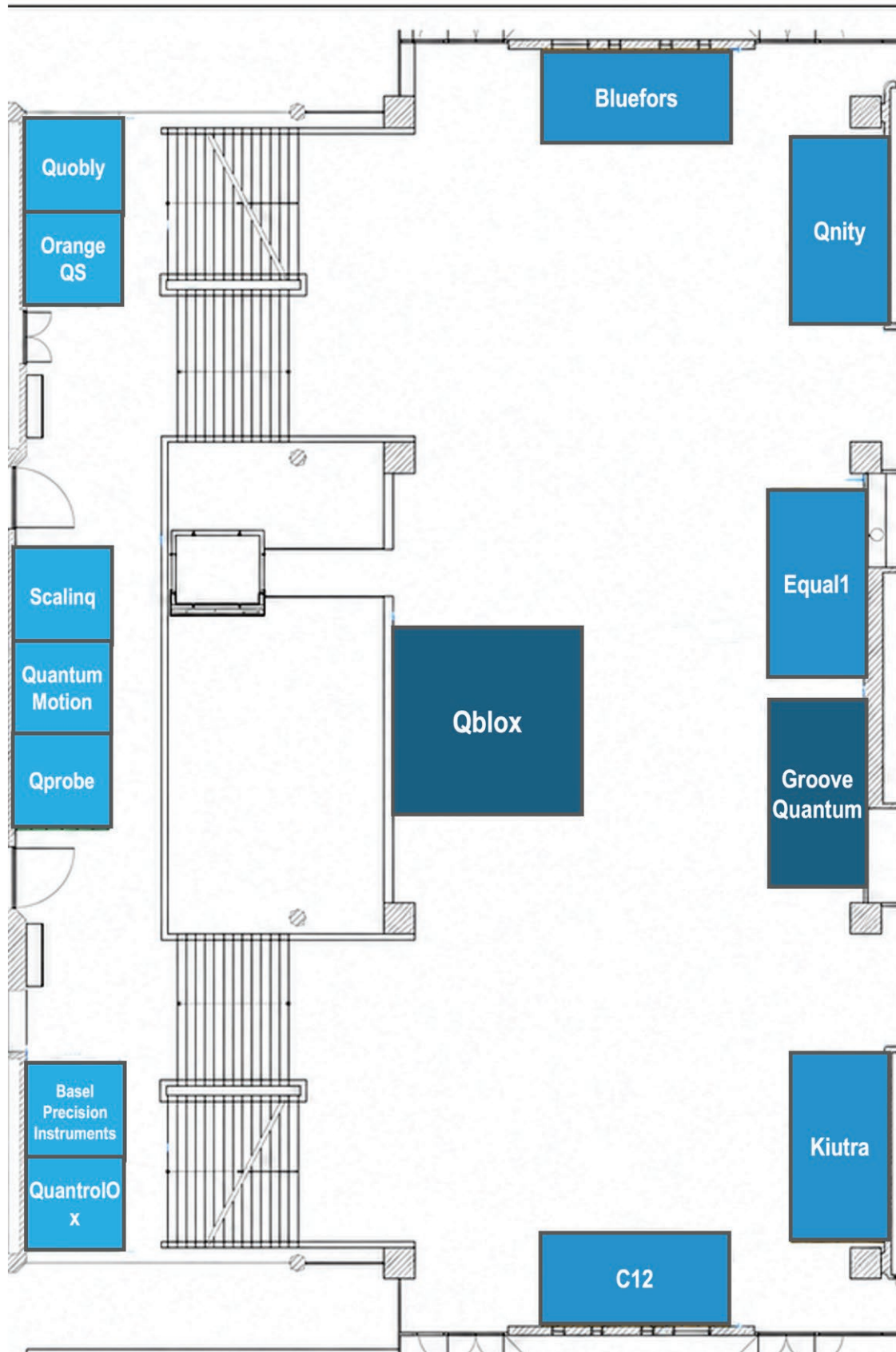
This image was created by Groove's flagship 18-qubit system in Delft. The piece utilizes a 9x19 pixel grid, where 9 qubits are initialized, driven, and measured simultaneously across 19 sequential rounds.

Come and create your own quantum artwork at our booth.

Want to help us make sure that next year we can print 'de Nachtwacht' the same way? Talk to someone from our team or check out the open positions on our website:



Floorplan



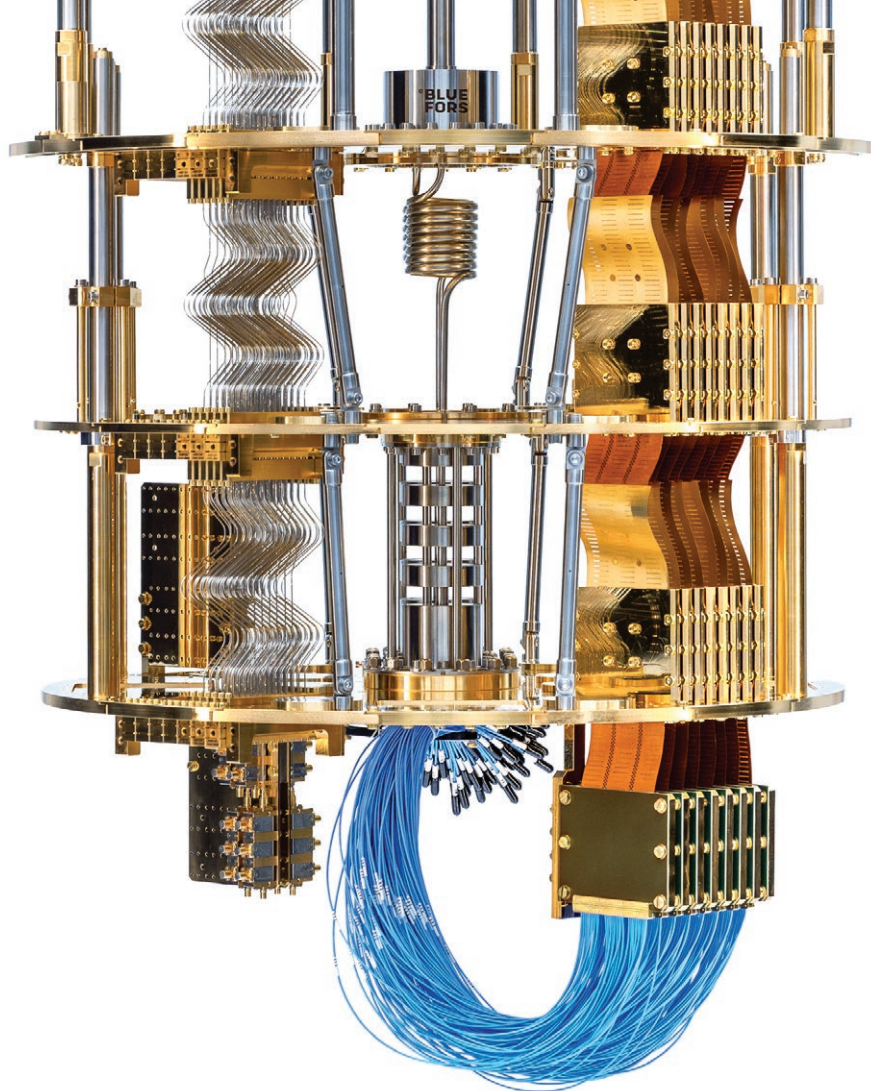
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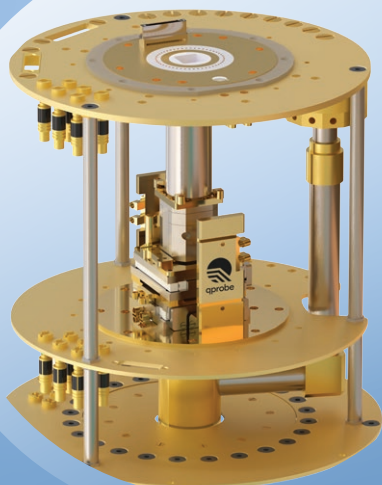


**Cool for
Progress.**



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High-throughput device probing down to 10 mK

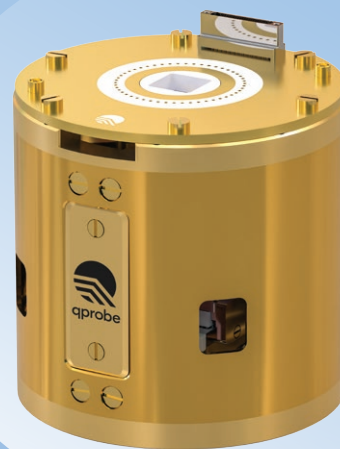


100 mK

10 mK

4 K

1 K



www.qprobe.ch

Scan to learn more



Preface

Welcome to the seventh edition of the International Conference on Spin-Based Quantum Information Processing.

Over the years, SpinQubit has established itself as a leading international forum for researchers, innovators, and industry partners working at the forefront of spin-based quantum technologies. Building on the success of previous editions, SpinQubit 7 once again brings together experts from around the world for a full week of inspiring presentations, engaging discussions, poster sessions, exhibitions, and numerous opportunities for scientific exchange and collaboration.

As quantum technologies continue to mature, it is increasingly important to foster an open and interdisciplinary environment in which new ideas can be explored, challenged, and refined. SpinQubit 7 provides such a platform, bringing together a vibrant community spanning academia, research institutes, and industry to discuss the latest advances in spin qubits and semiconductor quantum computing.

The conference covers a broad range of spin-based qubit implementations, including donors in silicon, gate-defined quantum dots in GaAs, SiGe, and SiMOS, as well as hole-based qubits in germanium quantum wells and nanowires. In addition, the scientific program highlights advances in materials, fabrication technologies, algorithms, and cryogenic control electronics. By connecting researchers working across these diverse areas, SpinQubit 7 aims to strengthen collaborations and accelerate progress toward scalable and practical quantum technologies.

A conference of this scope is only possible through the dedication and support of many contributors. We would like to sincerely thank the international scientific committee, our supporters, the organizing committee, our incredible support staff, our enthusiastic student volunteers, and, above all, all participants whose engagement makes SpinQubit such a dynamic and inspiring event.

The past two years have seen remarkable developments and exciting breakthroughs in spin-based quantum computing. We look forward to celebrating these achievements together, exchanging ideas, and shaping the future of the field at SpinQubit 7. We warmly welcome you and wish you an inspiring and enjoyable conference.

Stefano Bosco and Maximilian Rimbach–Russ
Conference Chairs, SpinQubit 7

Scaling spin qubits together

Proven quantum test expertise for the next generation of spin technologies

Orange Quantum Systems is a leading provider of solutions for testing quantum chip performance. Headquartered in Delft, OrangeQS specializes in developing reliable, scalable, and efficient test equipment and protocols that provide clear and transparent insight into quantum chip performance.

Quantum chip testing requires significant developer time and expertise, creating a bottleneck across the industry. OrangeQS's mission is to remove that barrier by building test solutions that help customers develop better quantum chips, combining proprietary testing protocols, a carefully designed control stack, and a cryogenic sample environment for fast, reliable testing throughout the development process.

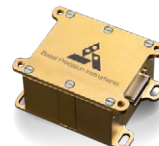
Visit our booth for a live demo of SpinQT



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Organisation

CONFERENCE CHAIR

Dr. Stefano Bosco
Dr. Maximilian Rimbach–Russ

LOCAL ORGANIZING COMMITTEE

Prof. Lieven Vanderyspen
A./Prof. Anasua Chatterjee
Erik Anspach
Frederieke Brands
Maarten Huppertz
Julijana Avromov
Milan Verbrugge

SCIENTIFIC COMMITTEE

Dr. Stefano Bosco
Dr. Maximilian Rimbach–Russ
A./Prof. Anasua Chatterjee
Prof. Leo Kouwenhoven
A./Prof. Giordano Scappucci
Prof. Lieven Vandersypen

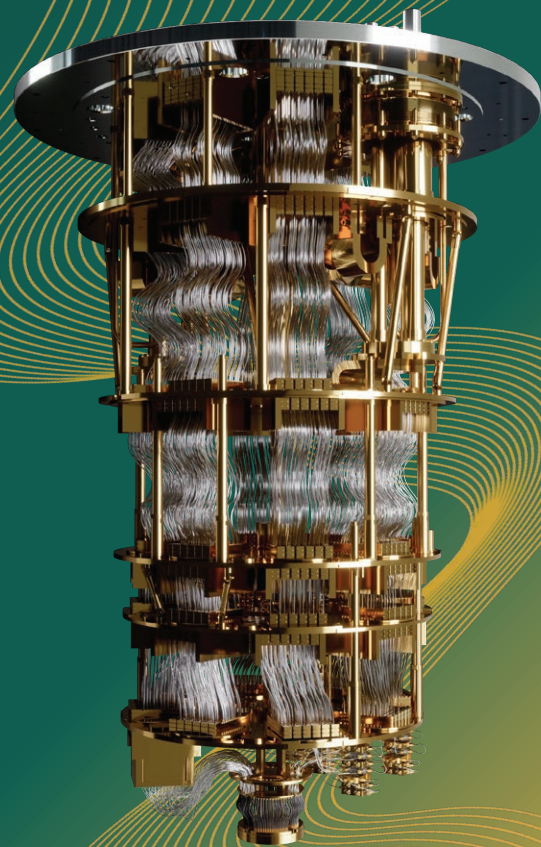
Prof. Menno Veldhorst
Prof. Guido Burkard
Prof. Daniel Loss
Prof. Jelena Klinovaja
Prof. Dominik Zumbühl

CRYOGENIC HARDWARE FOR QUANTUM DEVICES

We solve the inevitable problems when scaling quantum computers. Stemming from research, we develop novel cryoelectronics for systems with both spin and superconducting qubit architectures. Our growing product portfolio includes sample holders, filters and TWPAs.

Visit our booth to see our products and get a **free SMA wrench!**

SCALINQ
Cryogenic Hardware For Qubit Devices



Silicon-based quantum computers built for existing infrastructures

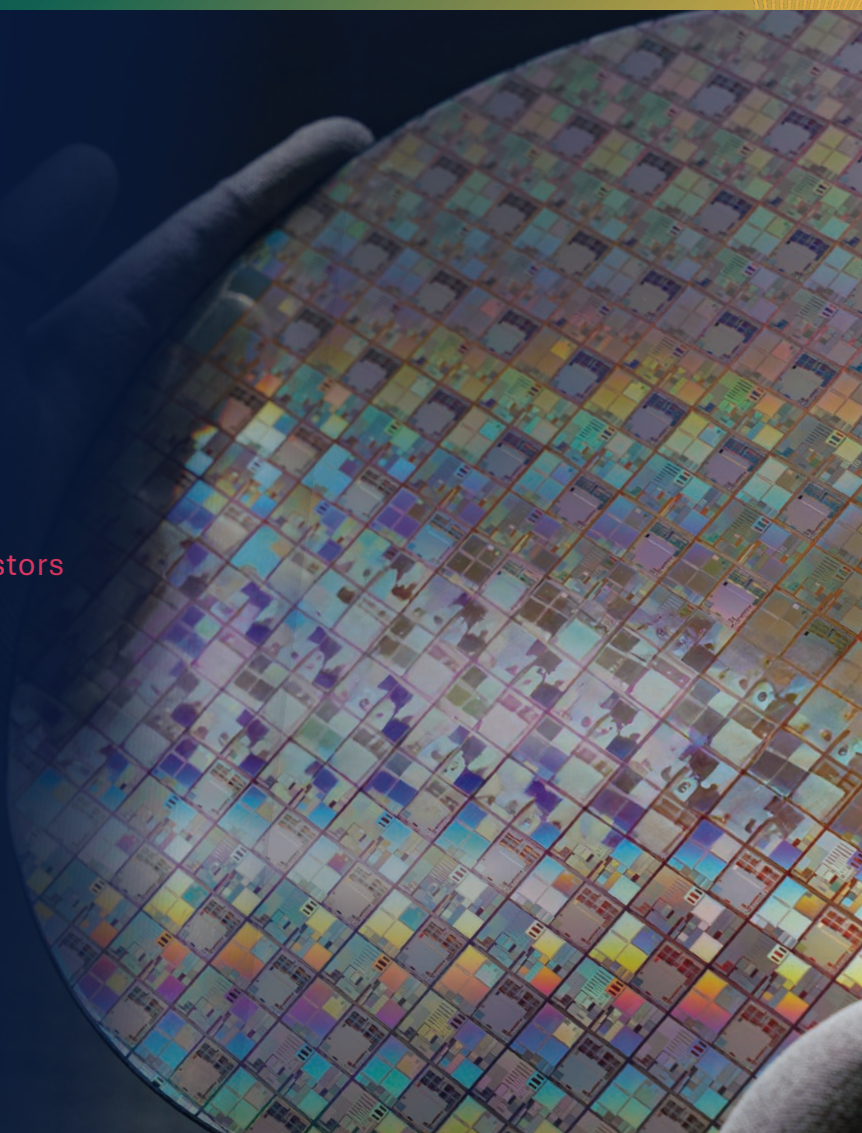
Quobly is charting a realistic path toward a large-scale and cost-effective quantum computer using proven semiconductor manufacturing processes.

We make qubits like semiconductor transistors

We turn standard silicon transistor technology into programmable silicon qubits using the industrial processes that already power the semiconductor world.

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Get to know us



Location

DELFT UNIVERSITY OF TECHNOLOGY AULA CONFERENCE CENTRE (BUILDING 20)

Mekelweg 5
2628 CC
DELFT The Netherlands

The Aula Conference Centre is located in the heart of the university campus. Stretching over 161 hectares, the campus is larger than downtown Delft, and one of the largest university campuses in the world. The campus has been equipped with an extensive bicycle and pedestrian road network. The TU Delft campus has a green, parky character. Large parts of the campus are therefore only accessible on foot, by bike or public transport. For motorists there is the campus ring road, which circles the entire campus. Clear signage on the campus ring guides you easily to the central parking lots. From there, every destination is reachable on foot.

QUANTUM MEETS

18-21 May 2027

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European quantum ecosystem
in the Netherlands.



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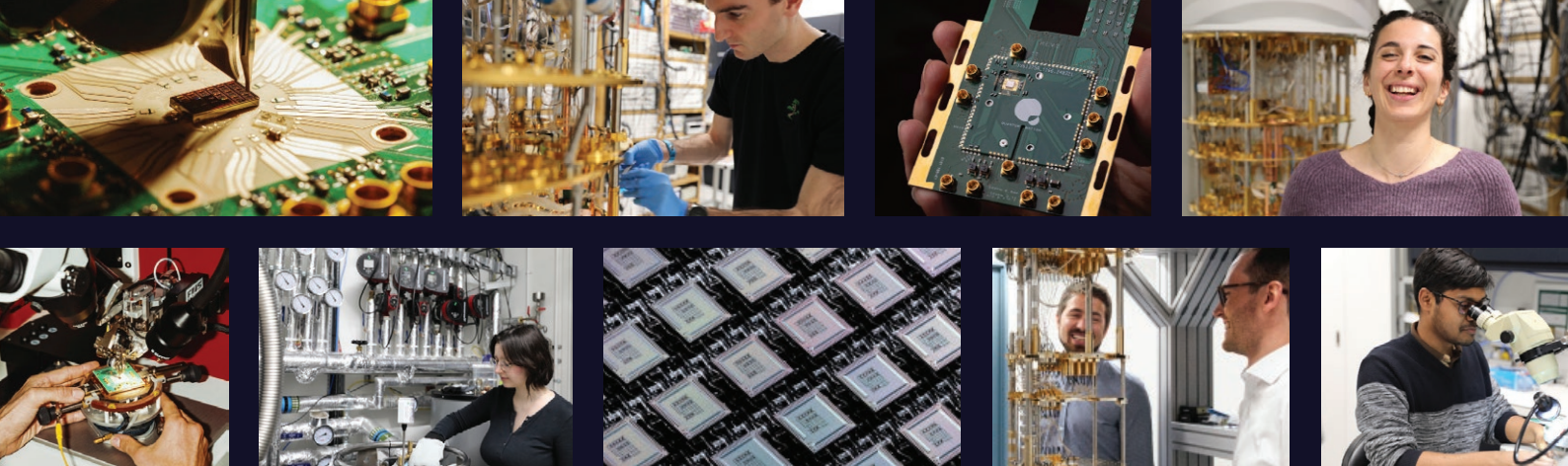
A carbon nanotube approach to fault-tolerant quantum computing.

www.c12qe.com

Program Day 1

Monday 13 July

Time	Session	Topic / Chair
8:30	Arrival	M Session 1 Patrick Del Vecchio
8:45	Welcome and Opening	
9:00	Giordano Scappucci TU Delft	
9:30	Oussama Moutanabbir Polytechnique Montreal	
10:00	Erik Bakkers TU Eindhoven	M Session 2 Łukasz Cywiński
10:30	BREAK	
11:00	Mark Friesen Wisconsin-Madison	
11:30	Yann-Michel Niquet CEA Grenoble	
12:00	Giulia Galli UChicago	M Session 3 Stefano Bosco
12:30	Announcements/Supporter	
12:35	EXHIBITION with Lunch served	
13:30	EXHIBITION with coffee	
14:30	Menno Veldhorst TU Delft	M Session 4 Biel Martínez
15:00	Silvano De Franceschi CEA Grenoble	
17:30	Georgios Katsaros ISTA	
16:00	BREAK	
16:30	Nico Hendrickx Groove Quantum	M Session 4 Biel Martínez
17:00	Patrick Harvey-Collard IBM Zurich	
17:30	Daniel Loss University of Basel	
18:00 – 20:00	WELCOME DRINKS	



Be part of a growing team /

Quantum Motion is developing quantum computers that are fabricated using standard silicon processing. We are always on the search for new people to come share their talents with us, whether you have expertise in quantum device modelling, you want to bring your IC knowledge to a new challenge, or you have hands-on experience with silicon quantum devices.



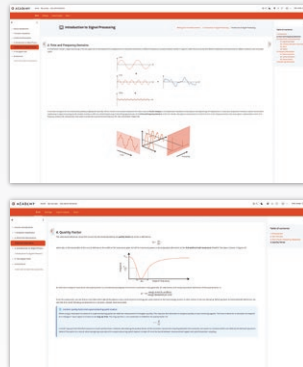
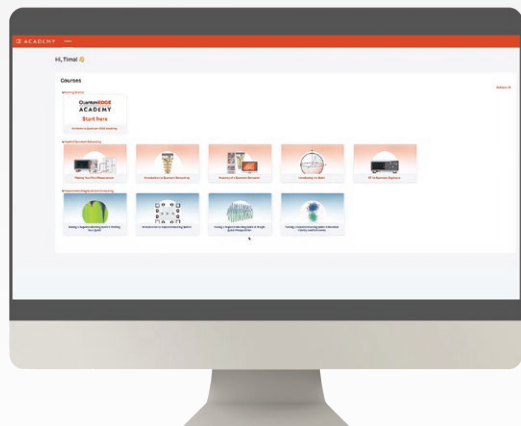
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Quantum **EDGE** ACADEMY

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Quantum EDGE Academy is the world's first virtual learning tool for **mastering quantum hardware**.

Quantum EDGE Academy offers a scalable way to teach practical quantum computing without the need for a physical lab. Built on the industry-used **Quantum EDGE** measurement and automation platform, it enables learners to run measurements on realistic simulated hardware and gain hands-on experience for careers in the quantum industry.



Program Day 2

Tuesday 14 July

Time	Session	Topic / Chair
8:30	Arrival	T Session 1 Floris Zwaneburg
8:45	Welcome and Opening	
9:00	Lieven Vandersypen TU Delft	
9:30	Guido Burkard University of Konstanz	
10:00	Mark Eriksson Wisconsin-Madison	
10:30	BREAK	
11:00	Jason Petta UCLA	T Session 2 Benjamin Woods
11:30	John Nichol University of Rochester	
12:00	Seigo Tarucha RIKEN	
12:30	Announcements/Supporter	
12:35	EXHIBITION with Lunch served	
13:30	EXHIBITION with coffee	T Session 3 Silvano De Franceschi
14:00	Sankar Das Sarma University of Maryland	
14:30	Valla Fatemi Cornell University	
15:00	Jelena Klinovaja University of Basel	
15:30	Leo Kouwenhoven TU Delft	
16:00	BREAK	
16:30 – 18:00	POSTER SESSION I	



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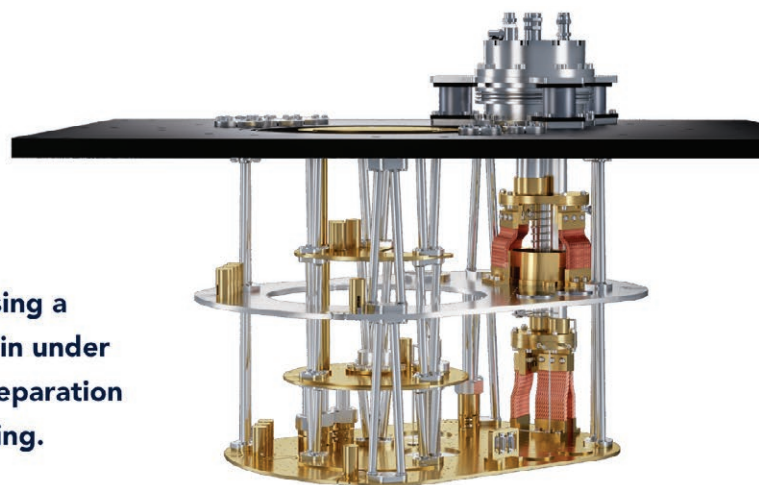
Find out more ►



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The first cryogenic cooling breakthrough in 60 years. Using a fraction of the He-3 required for a dilution unit, cooling in under 10 hours, and featuring streamlined wiring, the Phase Separation Refrigerator is purpose-built to scale spin-qubit computing.



ZPC Phase Separation Refrigerator

► TECHNICAL SPECS

MODEL L LAYOUT

MODEL I LAYOUT

Base temperature and cooling power	<500 mK (30 mW at 1 K)	
Cooldown time	8-10 hours	
Sample size ^{NEW}	340 mm diameter >600 mm vertical space	250 mm diameter 190 mm vertical space

The Phase Separation Refrigerator (PSR) leverages a pumped Joule-Thomson cooler to provide continuous cooling with fast cool-down and turn around times. ZPC systems have fully automated cooldown and warm-up procedures, with push-button operation and remote viewing and operation for your peace of mind.

*US Patent No: 12,372,274. Visit [zpcryo.com/patents](https://www.zpcryo.com/patents) for more information.

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Program Day 3

Wednesday 15 July

Time	Session	Topic / Chair
8:30	Arrival	
9:00	Andrea Morello UNSW	W Session 1 Arne Laucht
9:30	Sam Gorman SQC	
10:00	Yu He Shenzhen International Quantum Academy	
10:30	BREAK	
11:00	David Reilly University of Sydney	W Session 2 Sofia Patomäki
11:30	Matthieu Delbecq LPENS	
12:00	Peter Maurer UChicago	
12:30	Announcements/Supporter	
12:35	LUNCH	
13:30 – 17:30	Excursion (all conference delegates invited)	
18:30 – 21:30	GALA Dinner (all conference delegates invited)	



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Educate.
Innovate.



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Program Day 4

Thursday 16 July

Time	Session	Topic / Chair
8:30	Arrival	T Session 1 Anne-Marije Zwenner
8:45	Welcome and Opening	
9:00	Andrew Dzurak Diraq	
9:30	Dominik Zumbühl University of Basel	
10:00	Alex Hamilton UNSW	T Session 2 David DiVincenzo
10:30	BREAK	
11:00	Florian Luthi INTEL	
11:30	Kristiaan De Greve IMEC	
12:00	Thaddeus Ladd HRL	T Session 3 Jan Krzywdka
12:30	Announcements/Supporter	
12:35	EXHIBITION with Lunch served	
13:30	EXHIBITION with coffee	
14:30	Anasua Chatterjee TU Delft	T Session 3 Jan Krzywdka
15:00	Justyna Zwolak NIST	
15:30	Natalia Ares University of Oxford	
16:00	BREAK	
16:30 – 18:00	POSTER SESSION II	



In Delft, over 1100 people are working on quantum technology

QuTech is the quantum technology research institute of Delft University of Technology in the Netherlands. At QuTech, around 350 people are working on this radically new technology with world-changing potential.

Our mission is to develop scalable prototypes of a quantum computer and an inherently secure quantum internet, based on the fundamental laws of quantum mechanics.

We take pride in our academic excellence — evidenced, among other things, by the high number of papers we publish in leading academic journals — as well as in our economic impact and focus on valorisation, as demonstrated by the thriving quantum ecosystem of quantum technology companies around the university, supported by QDNL Delft.

qutech.nl

qdnl.delft.nl

Program Day 5

Friday 17 July

Time	Session	Topic / Chair
8:30	Arrival	
8:45	Welcome and Opening	
9:00	Simon Benjamin Quantum Motion	F Session 1 Yuta Matsumoto
9:30	Lars Schreiber RWTH Aachen	
10:00	Andreas Reiserer TU Munich	
10:30	BREAK	
11:00	Pasquale Scarlino EPFL	F Session 2 Vanita Srinivasa
11:30	Dohun Kim Seoul National University	
12:00	Romain Maurand CEA Grenoble	
12:30	Announcements/Supporter	
12:35	EXHIBITION with Lunch served	
13:30	EXHIBITION with coffee	
14:30	Tim Taminiau TU Delft	F Session 3 Edwin Barnes
15:00	Sophia Economou Virginia Tech	
15:30	Andras Palyi BME Budapest	
16:00	BREAK	
16:30	Gloria Platero ICMM-CSIC	F Session 4 Katharina Laubscher
17:00	Christian Andersen TU Delft	
17:30	Maximilian Rimbach-Russ TU Delft	
18:00	Closing	

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