



Dear ,

In July's newsletter we'll update you on the upcoming European Quantum Technologies Conference (EQTC) 2023. You can also hear about the Quantum Flagship's participation in the World of Quantum fair and the newly launched workshop series "Quantum Technology Training for policymakers".

Find interesting news about a recently published Patent insight report by the EPO and an open call by the European Commission.

Furthermore, we have fascinating updates from the TruePA project and some news from the community.

If you would like to inform the quantum community on any QT activities or events within your national or regional community, or provide feedback to the QT newsletter, please get in touch at newsletter@qt.eu.

Best regards,
The Quantum Flagship Coordination Team

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Quantum Flagship event news

EQTC 2023 Programme: Quantum-ready, future-ready!

The **preliminary programme** of the European Quantum Technologies Conference 2023 is now online!

As the main quantum-themed conference of the European Commission and the biennial meeting point of the European quantum community, EQTC is the ultimate one-stop shop for getting the most recent updates on high-level European strategy, scientific and technological advances, national funding opportunities and much more.

With leading scientists, industry figures and policymakers, over 50 **speakers** have now been announced. Over 100 talks are expected with a wide variety of themes and topics to cover. Moreover, plenty of networking opportunities and fun experiences await you in Hanover, 16-20 October.

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Quantum Flagship event news

The Quantum Flagship at World of Quantum in Munich



*Stakeholders present at the Quantum Flagship booth at the World of Quantum, Munich.
(From left to right: Oscar Diez, Chaymae Senhaji, Jürgen Mlynek, Lydia Sanmarti-Vila, Philippe Grangier, Matyas Kovacs and Tommaso Calarco)*

The Quantum Flagship was pleased to participate in the second edition World of Quantum fair, which took place in Munich (Messe München) in June. Almost 90 exhibitors and over 15,000 trade visitors from all over the world came to hear the latest news in the quantum field, discuss growth opportunities and network.

During this event, the Quantum Flagship received visits not only from its stakeholders and partner projects, but also from quantum scientists and industry actors from all over the world, as well as from curious minds wanting to learn more about quantum, the Flagship and its activities.

Quantum Flagship event news

Quantum Technology Training for policymakers

The Quantum Flagship is offering a series of six monthly training sessions on Quantum Technology (QT), addressing policymakers at EU and national levels. The training has been designed in collaboration with EC policymakers accounting for their interests and needs and will allow participants to:

- gain the necessary knowledge to take informed decisions during the performance of their duties,
- cooperate with peers from other countries,
- and sustain a conversation on QT topics with experts.

Did you follow the first session "**European Quantum Technology Ecosystem and Roadmap**" with Prof. Dr. Tommaso Calarco, Director of the Institute of Quantum Control of the Peter Grünberg Institute at Forschungszentrum Jülich? If not, you can still catch up by watching the replay on our website!



ONLINE TRAINING

QUANTUM TECHNOLOGY

for policymakers

Speaker

PROF. DR. TOMMASO CALARCO
Director, Institute of Quantum Control,
Forschungszentrum Jülich GmbH

1st June 2023
11:30 - 12:40 CET

Funded by the European Union



ONLINE TRAINING

QUANTUM TECHNOLOGY

for policymakers

Topic:

Efforts & investments beyond EU

Speakers

PROF. GRETCHEN CAMPBELL
Deputy Director, National Quantum
Coordination Office, US

PROF. KENJI OHMORI
Chair, Committee for Quantum Science and
Technology Policy, MEXT, Japan

Funded by the European Union

The second session focused on **Efforts and Investments in Quantum beyond the European Union** and was attended by: Prof. Gretchen Campbell, Deputy Director, National Quantum Coordination Office (USA), and Prof. Kenji Ohmori, Chair of the committee for Quantum Science and Technology Policy in MEXT (Japan). View the session recording on our website!

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European Patent Office publishes insight report on quantum simulation

An EPO patent insight report on quantum simulation is now publicly available, as are the Office's previous reports on other quantum technology areas such as computing and sensing.

The new report focuses on 'second-generation' quantum simulation technologies, giving an overview of patent trends in the field and comparing the major global players.

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News from the European Commission

News from the European Commission

Open call on “Testing and evaluation infrastructure for EuroQCI”

A new open call on “Testing and evaluation infrastructure for EuroQCI” focuses on developing test methods and protocols to assess the capabilities and performance of QKD devices and systems. The evaluation will cover both security and non-security aspects.

Security aspects involve establishing a "product security baseline for EuroQCI components" in collaboration with national security authorities, along with building a testing infrastructure to evaluate security products implementing quantum cryptography. Non-security aspects will include functional and non-functional properties, including safety considerations.

Submit your proposal by **29 August 2023**.

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News from Quantum Flagship projects

TruePA project news

Towards understanding the requirements of Traveling

Wave Parametric Amplifiers

The **TruePA project**, funded by the Horizon Europe program, aims to develop the next generation of Traveling Wave Parametric Amplifiers (TWPAs). TWPAs play a crucial role in quantum technologies and basic sciences by detecting weak microwave signals.

In order to gain a better understanding of the key features of a TWPA that need to be improved and to align the research objectives with the actual requirements and needs of the academic and industrial communities, the project consortium has launched a survey.

If you work with TWPAs, your input would be greatly valued in helping the consortium understand the future expectations for these components by answering the short survey (5 minutes) by **5 August 2023**.

[TO THE SURVEY](#)

News from the community

News from France

Quandela opens its first factory for manufacturing quantum computers

Quandela has just inaugurated its first factory for manufacturing quantum computers in Massy (France). The grand opening took place on 20 June 2023, in the presence of Jean-Noël Barrot, Minister for Digital Transition and Telecommunications, Nicolas Dufourcq, CEO of Bpifrance, and Alain Aspect, 2022 Nobel Prize laureate in Physics and member of Quandela's scientific board. It marks a major milestone for the company as it embarks on its industrialisation phase.

The opening represents a remarkable achievement for Quandela and positions the company at the forefront of the quantum computing industry.

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News from Germany

Q.ANT and IMS CHIPS collaborate on quantum chip fabrication

Stuttgart-based start-up Q.ANT and the Institute for Microelectronics Stuttgart (IMS CHIPS) have signed an agreement to jointly manufacture photonic-based quantum chips. These chips

will be produced in small batches within two years.

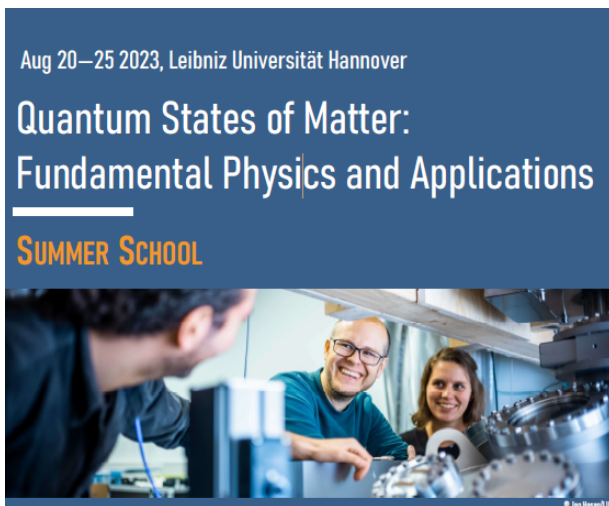
The quantum technology start-up Q.ANT will contribute its know-how in chip production along with a €14 million investment in machinery and process technology, while IMS CHIPS provides clean-room facilities and industry-scale manufacturing experience.

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Event news

Summer School "Quantum States of Matter: Fundamental Physics and Applications"

The Collaborative Research Centre "Designed Quantum States of Matter" organises its first summer school on "Quantum States of Matter: Fundamental Physics and Applications" from 20-25 August 2023, hosted at the Leibniz University of Hanover, Germany.



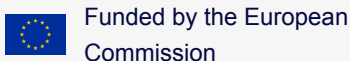
Jan Hosan/LUH

The lectures, delivered by experts in the fields of quantum gases, quantum optics and metrology, aim at preparing the next generation of young researchers in these fields. They will be complemented by several tutorials and lab tours at the Leibniz University and the National Metrology Institute (PTB).

For accepted participants, accommodation as well as participation are free of charge and travel cost expenses of up to 200€ can be reimbursed.

Submit your application by **31 July 2023**.

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Responsibility

This newsletter is operated by the project "QUCATS – the Quantum Flagship Coordination and Support Action", which is funded by the European Commission.

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