



Quantum Effects

Exhibition and Conference
for Quantum Technologies

07 – 08 Oct 2025
Messe Stuttgart (DE)

Quantum HPC & AI Conference



Call for Papers

quantum-effects.com/conference

The Conference

Quantum Effects is **the world's leading annual international exhibition and conference for application-oriented quantum technologies** organized by Messe Stuttgart. It will secure the vanguard role of Europe in this field. The program includes an exhibition, stage program, panel discussions, Quantum Effects award, networking night events, Technical tour and more.



4 Pillars of Quantum Effects

Computing & Enabling Technologies

- Quantum computers
- QT hardware
- Vacuum
- Cooling
- Connecting
- Controlling

Software

- Algorithms
- Firmware
- SDKs

Sensing

- Quantum imaging
- Measurement technology

Communication

- Quantum cryptography
- Quantum security
- Post-quantum encryption

Quantum Effects is accompanied by an academic conference program in collaboration with the High-Performance Computing Center Stuttgart (HLRS). The conference is taking place at the Messe Stuttgart conference center on the 7th and 8th October 2025. **HLRS and Messe Stuttgart are starting a call for papers for the Quantum Effects conference.**

Topic Areas

Quantum Computing

- Technologies and Architectures
- Quantum technologies beyond Quantum Computing
- Real-world Industry Use Cases (Industry-Academia collaboration)
- Algorithms and Technologies
- Algorithms, Methods & Tuning
- Benchmarking

Hybrid System Architectures

- Hybrid Hardware Architecture
- Hybrid Software Architecture
- Emerging HPC/AI/QC Technologies
- AI Applications powered by HPC/QC
- Integrating HPC, QC and Neuromorphic Systems
- System and Performance Monitoring

System Software

- Software Development and Optimization
- Cloud Solutions, Continuous Integration and Delivery
- Compiler and Tools for HPC/QC/AI Programming
- Language Models and Generative AI in HPC/QC

Community & HPC

- Community Engagement
- Political support and Public funding
- QC Initiatives
- Development of HPC/QC/AI Skills
- Education and Training
- Young Talents Development
- Infrastructure Challenges

Submission Types

The conference covers various tracks on different topics connected to the topics of HPC, QC and AI. We invite you to submit abstracts presenting novel and original contributions to these fields. We offer the following formats:

Paper



Tutorial

(60 to 180 minutes)



Workshop

(60 to 180 minutes)



We also plan to organize thematic panel sessions and a fishbowl on the 7th and 8th October on the stages of the Quantum Effects fair ground.

Submission Guidelines

Submissions should adhere to the following guidelines:

Two-Stage Process for Papers: Submissions to this track will follow a two-stage process. In the first stage, authors are required to submit a comprehensive abstract detailing their research methodology, findings, and conclusions. If the abstract is accepted, authors will be invited to submit a full-length paper in the second stage.

Two-Stage Process for Tutorials and Workshops: Submissions to this track will follow a two-stage process. In the first stage, authors are required to submit a comprehensive abstract pitching their ideas for a tutorial or workshop with a preliminary agenda and speakers (optional). If the abstract is accepted, authors will be invited to submit the final agenda including speakers in the second stage.

Conference Language is English: The official language of the conference is English. All presentations, discussions and workshops will be conducted in English. Submissions in languages other than English will not be considered for review.

Required Submission Information

Research Paper Track

For the Research Paper track, please provide the following information:

- Title of the Research Paper
- Author(s) Information: Name, affiliation, email address
- Short Abstract: Maximum 250 words
- Topic Area: Specify the primary topic area of your research (cf. above)
- Presentation Time: Estimated duration of the presentation

Tutorial/Workshop Track

For the Tutorial/Workshop track, please include:

- Title of the Tutorial/Workshop
- Presenter(s) Information: Name, affiliation, email address
- Short Abstract: Maximum 250 words
- Topic Area: Specify the primary topic area of the tutorial/workshop (cf. above)
- Session Duration: Estimated length of the tutorial/workshop
- Interactive Components: Description of any interactive parts or media requirements (e.g., internet access)
- Targeted Audience: Indicate the intended audience for the tutorial/workshop
- Estimated Number of Attendees: Provide an estimate of the expected number of participants



Conference Submission System

Please submit all abstracts through the EasyChair system.

<https://easychair.org/conferences/?conf=qaiconf25>



Submit
your
abstract
now!

Review Process

The submitted research paper, tutorial or workshop proposals will be reviewed by the Quantum Effects Conference Committee. During the submission process, authors must select one primary track that best aligns with their research topic. This will ensure that the abstract is reviewed by subject matter experts in the relevant field.

All submissions will undergo a **double-blind peer-review process**. Each submission will be carefully evaluated by a minimum of 2 to 3 independent reviewers, providing diverse perspectives and ensuring a comprehensive assessment. Papers will be evaluated based on several key criteria, including:

- **Relevance.** Fundamental insights and contributions to the selected field
- **Execution.** Clarity and coherence of the submission
- **Originality.** Novelty and originality of the research

All accepted presenters (papers, tutorials, or workshops) will receive complimentary registration, granting them free access to the entire two-day conference program.

Awards

Best Presentation Award

Talks will be evaluated based on criteria such as clarity and if the speaker can engage with the audience, including positive feedback from the audience.

Best Tutorial and Workshop Award

Interactive workshops will be assessed on their engagement, practical applicability, and participant feedback.

Best Paper Award

All accepted full-length papers will be considered for the Best Paper Award, which will be determined by a combination of review scores and the quality and number of participants during the paper's presentation session.

Important Dates

26.05.2025 Abstract submission deadline (paper, tutorial, workshop)

30.06.2025 Acceptance notification

01.09.2025 Camera-ready program material including full-length papers or final session agendas

28.09.2025 Final presentation slides (paper)

06.10.2025 Conference

07.–08.10.2025 Fair

For further assistance, please contact:

quantum-effects@messe-stuttgart.de

Cooperation partner



Region
Stuttgart

Hosting partner



Patronage



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