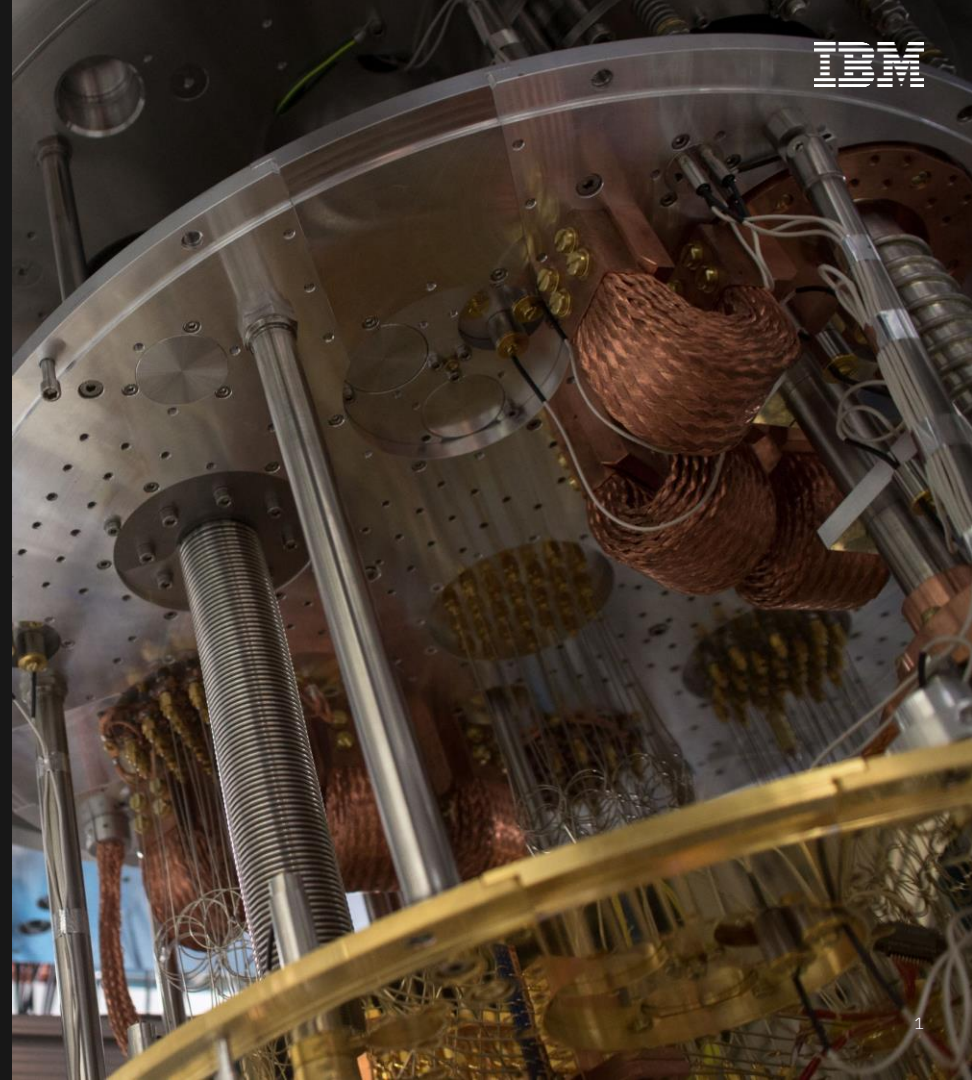


**Weiterführende  
Informationen zum Vortrag:**

**IBM Quantum  
ZKI Herbsttagung 2020**

—  
Dr. Oliver Oberst  
IBM Quantum Ambassador



# IBM Quantum Veröffentlichungen und Webseiten I

IBM Quantum and the IBM Quantum Experience

<http://ibm.com/quantum-computing>

Qiskit (Quantum Information and Science Kit – SDK)

<https://qiskit.org>

IBM Quantum For Scaling Quantum Technology

<https://www.ibm.com/blogs/research/2020/09/ibm-quantum-roadmap/>

Open Pulse Development (now Qiskit Pulse)

<https://arxiv.org/pdf/1809.03452.pdf>

<https://qiskit.org/textbook/ch-quantum-hardware/calibrating-qubits-pulse.html>

Error Mitigation

<https://www.nature.com/articles/s41586-019-1040-7>

<https://qiskit.org/textbook/ch-quantum-hardware/measurement-error-mitigation.html>

# IBM Quantum Veröffentlichungen II

Quantum Chemistry

<https://www.nature.com/articles/nature23879>

<https://arxiv.org/abs/1906.10675>. (IBM, Keio, and Mitsubishi Chemical)

Quantum Machine Learning

<https://www.nature.com/articles/s41586-019-0980-2>

Quantum AI

<https://arxiv.org/abs/1906.10467> (Keio, Mitsubishi Chemical, MIzuho, MUFG)

Quantum Risk analysis

<https://www.nature.com/articles/s41534-019-0130-6>

Quantum Generative Adversarial Networks for Learning and Loading Random Distributions

<https://arxiv.org/abs/1904.00043>

Amplitude estimation w/o QPE (IBM, Keio Univ, MUFG and Mizuho joint paper)

<https://arxiv.org/abs/1904.10246>

Quantum Finance: Qiskit finance

<https://github.com/Qiskit/qiskit-aqua#finance>

