Quantum Technology Transfer Catalysers

How we enable the integration of quantum technologies in classical infrastructures

https://quant-x-sec.com | xb@quant-x-sec.com

image source: midjourney

10/08/23

xb@quant-x-sec.com

Who We are

Founded in 2019 | Located at Hanover, Germany | 10 employees: Men and Women of Letters

IT EXPERTS / CONSULTING

- Information Security
- Project Management
- Software Engineering
- IT Operations

RESEARCH & DEVELOPMENT

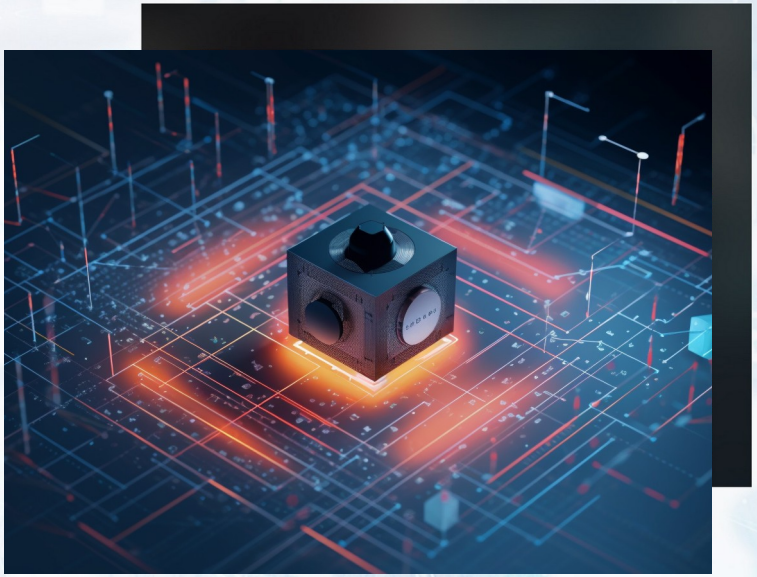
- Software Engineering
- Security Analyses & Proofs

xb@quant-x-sec.com

Quantum Technology Related Activities

“Preserve confidentiality, integrity and availability of data in the future”

- Quantum and Post-Quantum Security Integration
- Quantum and Post-Quantum Security Migration
- Quantum Security Proofs and Validation
- Quantum Algorithm Feasibility Studies



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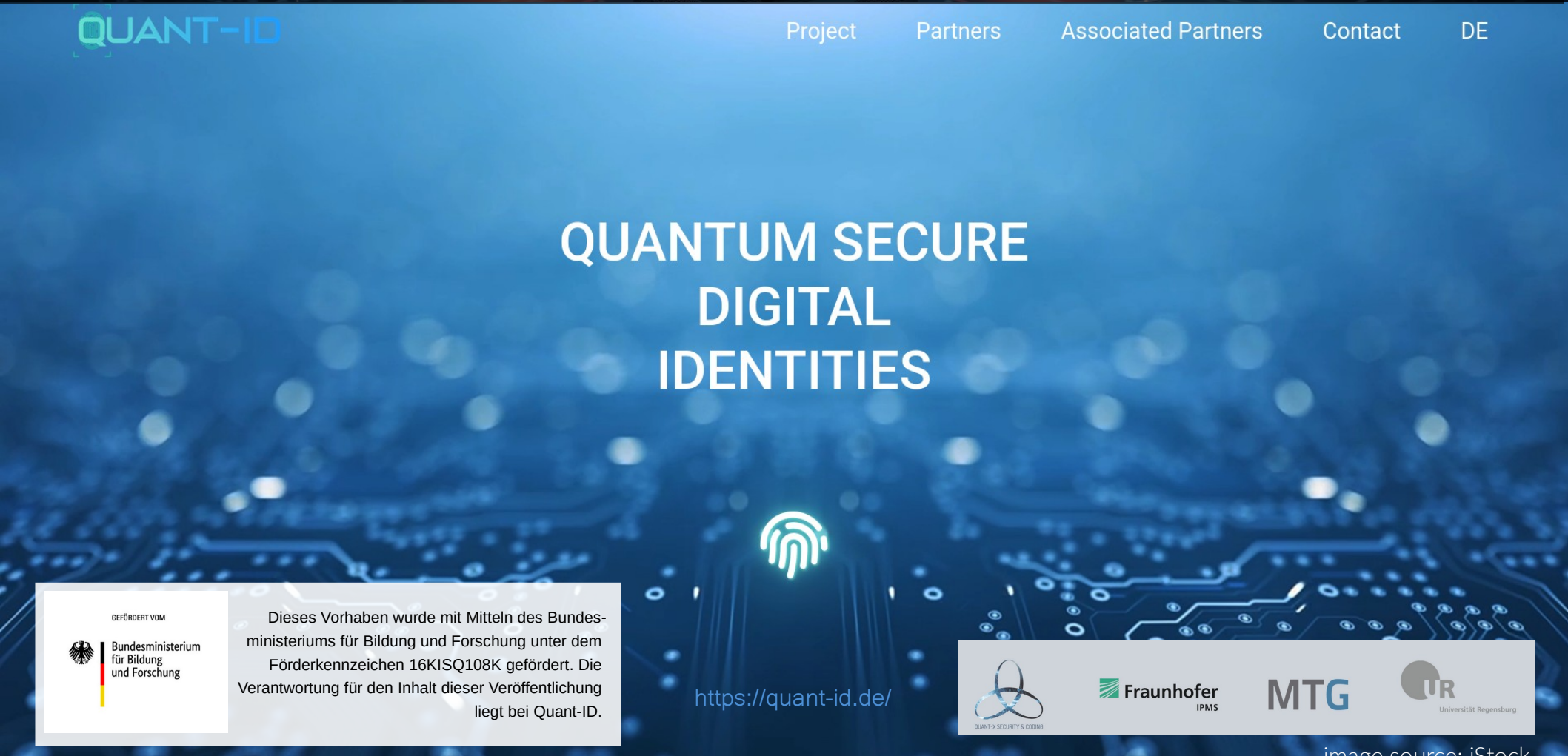
R&D - Quantum and Post-Quantum Integration



GEFÖRDERT VOM
Bundesministerium für Bildung und Forschung

Dieses Vorhaben wurde mit Mitteln des Bundesministeriums für Bildung und Forschung unter dem Förderkennzeichen 16KISQ108K gefördert. Die Verantwortung für den Inhalt dieser Veröffentlichung liegt bei Quant-ID.

QUANT-X SECURITY & CODING
Fraunhofer IPMS
MTG
Universität Regensburg

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QUANT-ID

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Associated
ROLAND HEDBERG
GUISEPPE DE MARCO
DB

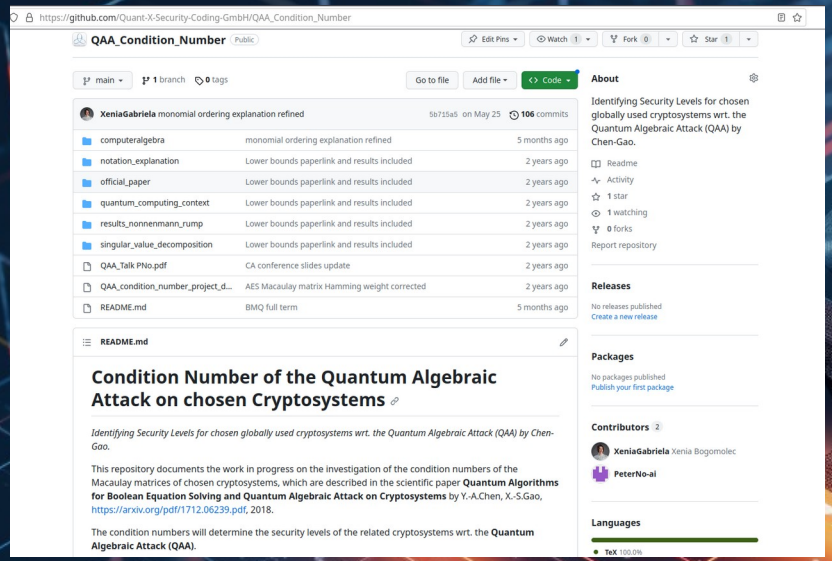
Fraunhofer IPMS:
QRNG development

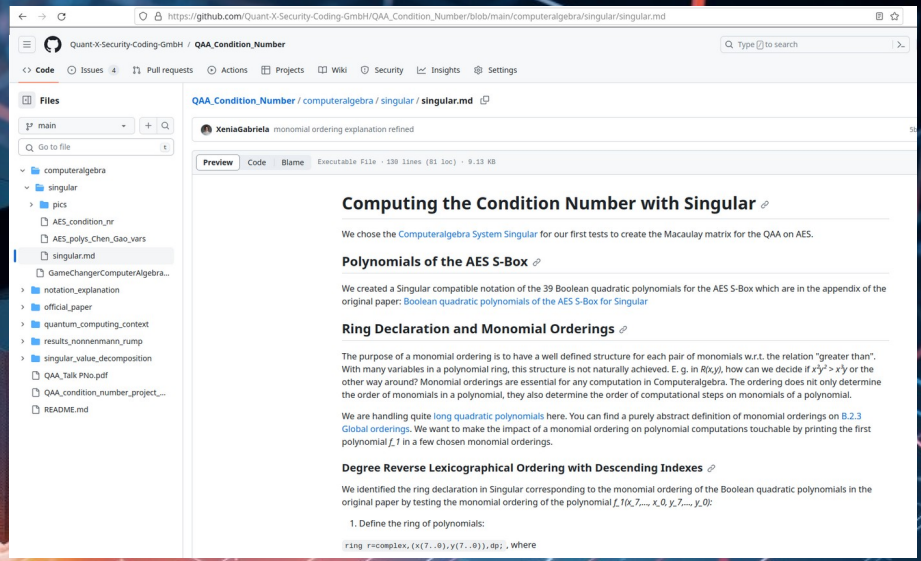
Quant-X:
Project coordination
QRNG entropy proof and validation
IAM protocol adjustments
Software engineering
Operations of end user applications
Statistics

MTG AG:
PQC-PKI
HW-SW APIs

University of Regensburg:
PQC-Analyses
QRNG entropy proof and validation lead

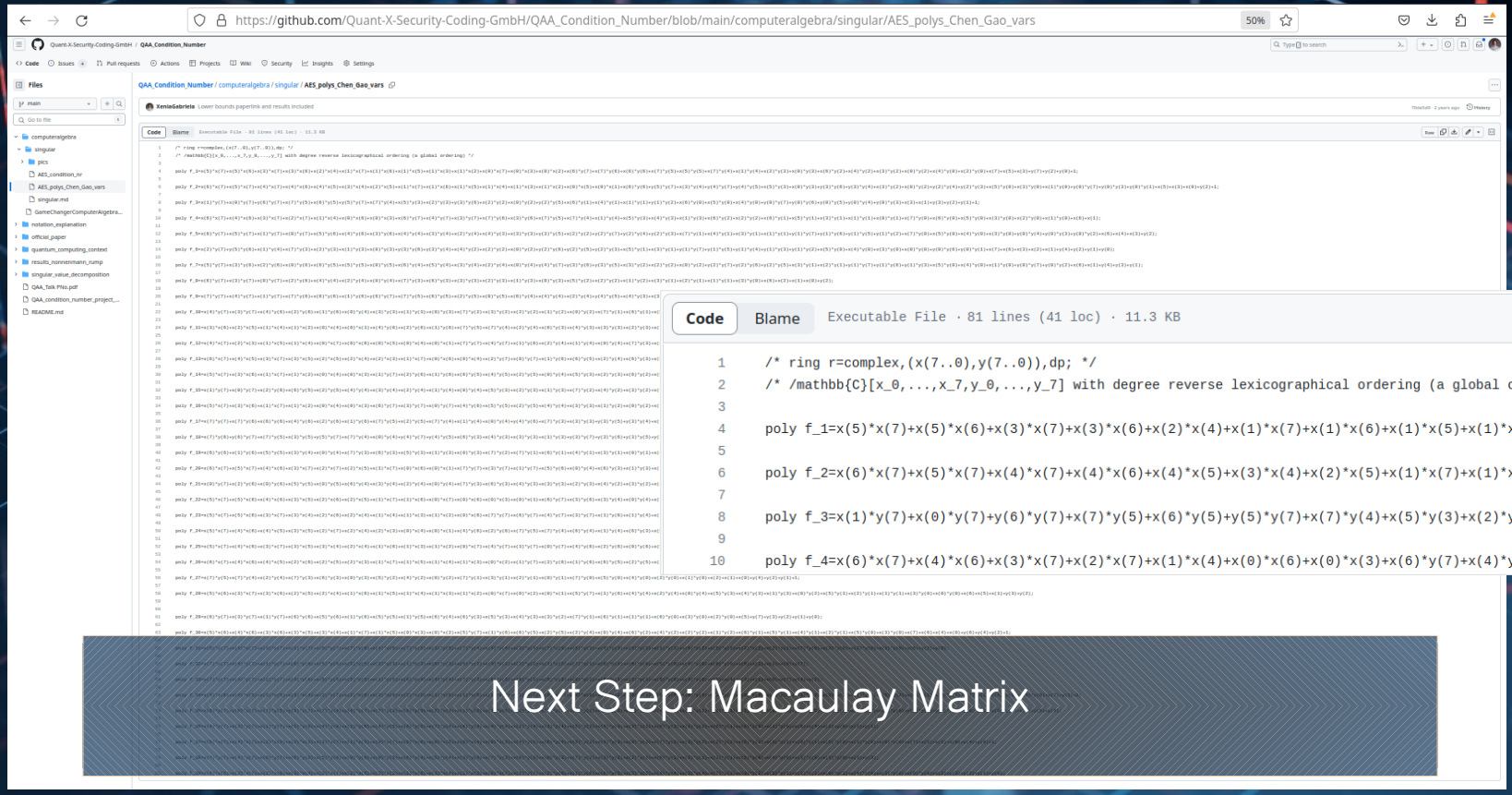
Quantum Algorithms – QAA / HHL





Focus: What we can achieve with Computeralgebra

Quantum Algorithms – QAA AES Quadratic Polynomials



Next Step: Macaulay Matrix

NormanPlans - On-Demand-Service Platform

First industry sector: Biotechnology (Genome Sequencing)

- Database with tech specs of genome sequencing instrument types, library preps and species
- APIs for connecting instruments, service providers and users
- Broker platform for library preps and genome sequencing jobs
- Genome sequencing capacity manager for service providers and the integrated broker platform
- Genome sequencing job search engine by sample species, type of genome analysis, desired delivery date etc.

image source: iStock

Next Step: Betatest.

We are looking for Betatest users (genome sequencing providers and users)!

xb@quant-x-sec.com

Contact us if your are interested in cooperation.

Thank you!
Questions?

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