Quantum-resistant digital signatures schemes for low-power IoT

1st Hannes Hattenbach

Computational Science

Freie Universität

Berlin, DE

hannes.hattenbach@fu-berlin.de

Abstract—
Index Terms—Internet of Things, Quantum Resistance, Secure Signatures, Power Constraint Devices

- I. INTRODUCTION
- II. INTERNET OF THINGS
- III. QUANTUM RESISTANT SECURITY
- A. Quantum Computing
- B. QR Algorithms
- 1) Encryption:
- 2) Signatures:
- 3) Performance Metrics:

IV. QR SIGNATURES IN IOT

- 1) Performance Metrics in IoT:
- A. Failed Signatures
 - 1) WalnutDSA:
 - 2) qTESLA:
- B. FALCON

V. CONCLUSION