

# A Quantum Approach to Hardware Security

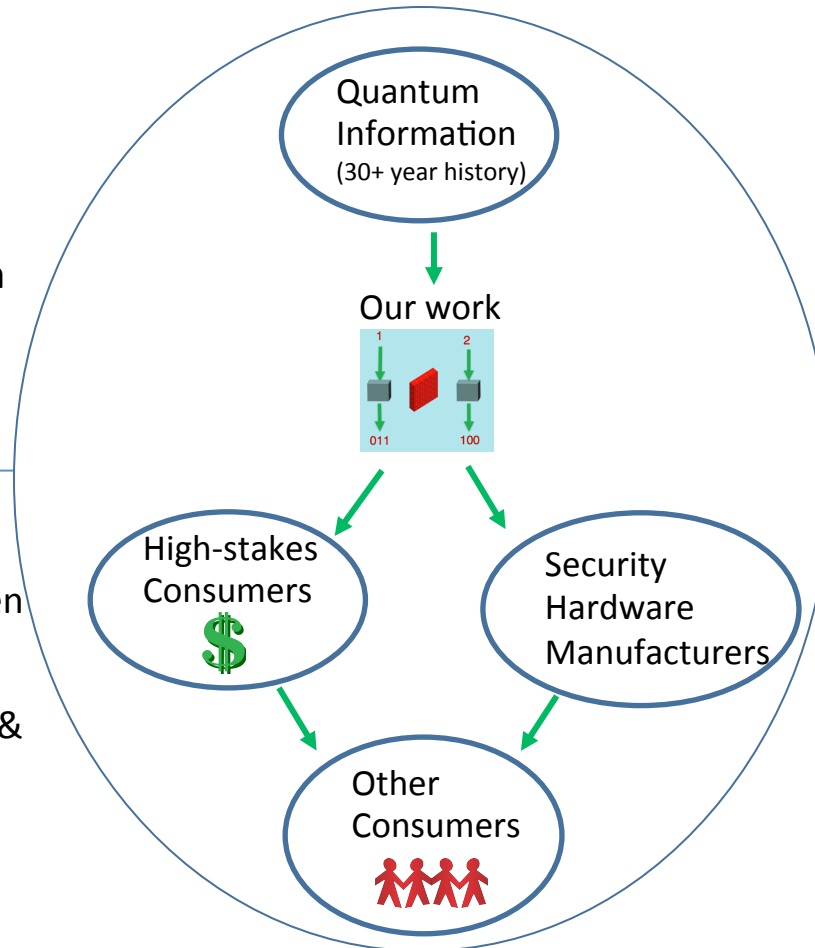


## Challenge:

- Most methods for secure communication are based on **unproven** assumptions.

## Solution:

- Mathematically proven solutions based on quantum physics.
- Immediate detection & adaptation for any imperfections in the hardware.



## Scientific Impact:

- We address the problem of side-channel attacks due to imperfect hardware.
- We help bring the vibrant field of quantum cryptography into the mainstream.

## Broader Impact:

- Consumers will have guaranteed solutions for secure communication
- Tangible applications will draw more students to the field
- Part of the larger trustworthy security ecosystem

Award 1526928

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