

# Efficient Crypto Solutions for the Next Generation Applications

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## **Challenges**

- Truly practical solutions for emerging applications
- Post-quantum security

## **Solutions**

- Refining existing theories (e.g., homomorphic computation)
- Exploring new mathematical structures (codes, lattices)
- Tighter security analysis

## **Scientific Impacts**

- Next generation post-quantum standardizations
- Determine the boundaries of theory vs practice

## **Broader Impacts**

- Crypto education and training
- Improve awareness and outreach to underrepresented groups