Designing Secure Hash Functions and Block Ciphers





NSF Trustworthy Computing Grant (#1619158), 9/2016-8/2019. "On the Design of Secure Hash Functions and Block Ciphers." Yevgeniy Dodis, NYU.

Scientific Impact:

- Better understanding of security and applicability of hash functions and block ciphers
- Concrete security bounds help in choosing good parameters in practice

Broader Impact:

- Higher trust in standardized hash functions and block ciphers
- Proposed schemes highly practical
- Clean design and analysis suitable for teaching in lectures on cryptography