

NUMBER THEORY AND CODING THEORY: CONTEMPORARY APPLICATIONS IN SECURITY

Summer School at Åbo Akademi University • Turku • Finland
May • 28 - June • 1 • 2018



Mini Courses

Marcus Greferath (Aalto U)

Karin Halupczok (Heinrich Heine U)

Bharath Sethuraman (Cal State)

Qiwen Wang (KTH)

Coding Theory: Introduction to Error Control

Number Theory: Concepts, Primes,
Algorithms, Elliptic Curves and Cryptography

Introduction to Algebraic Number Theory

Private Information Retrieval: Coding
Theorems and Fundamental Limits

Special Talks

Sergey Bezzateev (ITMO U)

Julia Brandes (Chalmers)

Chris Brzuska (Aalto U)

Ragnar Freij-Hollanti (TU Munich)

Helger Lipmaa (U Tartu)

Special Subclass of Goppa Codes for Security

Vinogradov Systems with a Slice off

Foundations of Cryptography

Star Product Schemes for Private Information
Retrieval

ZK-SNARKs: Foundations and Applications



Registration Deadline May 15

[HTTP://USERS.ABO.FI/AERNVALL/SUMMERSCHOOL2018/](http://users.abo.fi/aernvall/summerschool2018/)