

Coding Theory and Cryptography Meetup

Dipartimento di Matematica e Fisica — October 2023, 31th

Coding theory and cryptography both share a fundamental objective: ensuring the integrity and security of data. This research event aspires to create a collaborative platform for Master's and PhD students, academics, and industries.

The main goal is to delve into the intricate world of algebraic and geometric methodologies and their contemporary applications in the development of error-correcting codes and the formulation of robust cryptographic systems.

By uniting minds from academia and industry, this gathering aims to foster a comprehensive understanding of how advanced mathematical concepts can be used in reliability and secrecy of information in an increasingly interconnected world.

Invited speakers

Giovanni Giuseppe Grimaldi (University of Naples "Federico II")

A geometric construction of a family of non-linear MRD codes

Valentino Smaldore (University of Padova)

Stabilizers of graphs of linear functions and rank-metric codes

Antonina Khramova (TU/e Eindhoven University of Technology) *Eigenvalue bounds for sum-rank-metric codes*

Maria Ferrara (University of Campania "Luigi Vanvitelli")

Algebra and Real Life: Tools for Ensuring Privacy

Carmine Monetta (University of Salerno) *Group-based primitives*

Annamaria lezzi (University of Naples "Federico II")

On an open problem in isogeny-based cryptography

Industrial session

STMicroelectronics

Secure element technology and Cryptography

Bit4id

Challenges for QTSPs in the Quantum Computers Era

Organizers

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Mariapia Raimondo

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