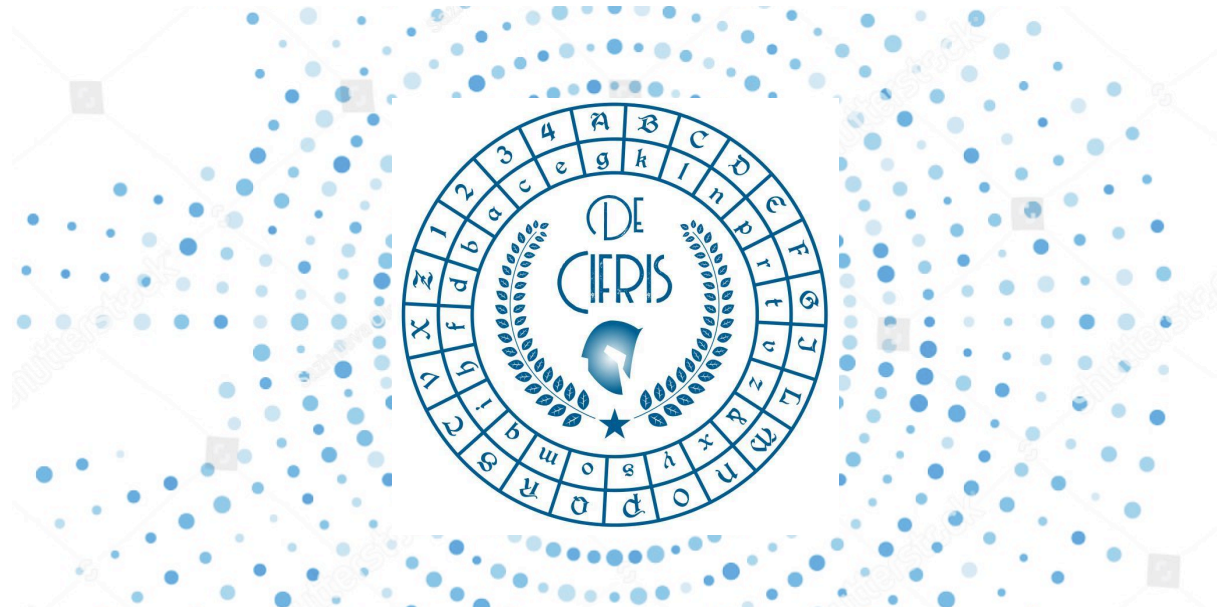


DE CIFRIS TRENDS IN MODERN CRYPTOGRAPHY

THE FRENCH MAGISTERIUM

Trends Autumn 2024



ORGANIZERS (University of Trento and De Cifris):
Massimiliano Sala and Alessio Meneghetti

Lessons (20 recorded videos on [Our YouTube Channel](#)):

The French Magisterium

Algebraic Cryptanalysis

Side-Channel Attacks

Symmetric Cryptography

Lightweight Cryptography

Post-quantum Cryptography

Homomorphic Encryption

Multi-Party Computation in the Head

and much more ...

(see next page)

Certificate

Online course with certificate (with exam)

For more information

<https://www.decifris.it/trends24>

alessio.meneghetti@unitn.it

To sign up:

send an email to trends@decifris.it
within 1st September 2024



UNIVERSITÀ
DI TRENTO

Dipartimento di
Matematica

Lecturing:

9th September - 30th November 2024

DE CIFRIS TRENDS IN MODERN CRYPTOGRAPHY

THE FRENCH MAGISTERIUM

Twenty leading professors and researchers will show us the top of French cryptographic research.

- *Magali Bardet* (University of Rouen, France)
Polynomial System Solving and Application to Algebraic **Cryptanalysis**
- *Sonia Belaid* (Crypto-expert, Paris, France)
Side-Channel **Attacks** and Masking Countermeasures
- *Jean-Francois Biasse* (Center for Cryptographic Research, USF, USA)
[The Code Equivalence Problem and its Applications to Cryptography](#)
- *Christina Boura* (University of Versailles, France)
Tools for **cryptanalysis** of symmetric primitives
- *Sébastien Canard* (Telecom Paris- Saclay, France)
[Cryptography for anonymity and accountability](#)
- *Anne Canteaut* (INRIA Paris, France)
Lightweight symmetric primitives
- *Claude Carlet* (Universities of Bergen and Paris 8, France)
The Almost Perfect Nonlinearity of Substitution Boxes and its Consequences;
- *Léo Ducas* (Centrum Wiskunde Informatica (CWI), Amsterdam, Netherlands)
[Lattice-based Cryptography \(I\)](#)
- *Philippe Gaborit* (University of Limoges, France)
[Code-based Cryptography with Rank Metric](#)
- *Louis Goubin* (University of Versailles, France)
[Diving into Multivariate Cryptography](#)
- *Adeline Roux-Langlois* (GREYC, CNRS, Unicaen, Ensicaen, Caen, France)
[Hardness of the Module Learning With Errors Problem](#)
- *Alice Pellet-Mary* (University of Bordeaux, France)
[Lattice-based Cryptography \(II\)](#)
- *Sihem Mesnager* (Universities of Paris VIII and Sorbonne North, France)
Algebraic aspects in designing cryptographic functions in symmetric cryptography
- *Pierrick Meaux* (University of Luxembourg, Luxembourg)
[Hybrid Homomorphic Encryption](#)
- *Ludovic Perret* (University of Paris VII, France)
[The Transition to Post-Quantum Cryptography](#)
- *Léo Perrin* (INRIA Paris, France)
[Symmetric Techniques for Advanced Protocols: Design Strategies, and **Cryptanalysis**](#)
- *Damien Stehlé* (ENS Lyon, France)
[Fully Homomorphic Encryption](#)
- *Serge Vaudenay* (EPFL Switzerland)
[Anonymous Tokens](#)
- *Damien Vergnaud* (Sorbonne University, France)
[Multi-Party Computation in the Head: Techniques and Applications](#)
- *Giles Zémor* (University of Bordeaux, France)
[The Alekhnovich cryptosystem: code-based cryptography with security proofs](#)

We are indebted to Prof. *Sihem Mesnager* for her excellent management.