

## Monday 15

### Invited Talk

09:00–09:50 Capacity of higher dimensional constrained systems (B. Marcus)

### Codes and Combinatorial Structures 1

10:00–10:20 Variations on Minimal Linear Codes (G. Cohen, S. Mesnager)

10:20–10:40 Classification of MDS Codes over Small Alphabets (J. I. Kokkala, D. S. Krotov, P. R. J. Östergård)

10:40–11:00 The Extension Theorem with Respect to Symmetrized Weight Compositions (N. Elgareem, N. Megahed, J. A. Wood)

11:00–11:20 An Extension of the Brouwer-Zimmermann Minimum Weight Algorithm (P. Lisonek, L. Trummer)

### Coffee Break (11:20–11:40)

### Codes and Combinatorial Structures 2

11:40–12:00 On the Automorphism Groups of the  $Z_2Z_4$ -Linear Hadamard Codes and Their Classification (D. Krotov, M. Villanueva)

12:00–12:20 Hadamard  $Z_2Z_4Q_8$ -codes. Rank and Kernel (J. Rifà, P. Montolio)

12:20–12:40 On the Error-Correcting Radius of Folded Reed-Solomon Code Designs (J. Brauchle)

12:40–13:00 Power Decoding of Reed-Solomon Codes Revisited (J. S. R. Nielsen)

### Lunch (13:00–14:30)

### Codes and Graphs

14:30–14:50 Shifted de Bruijn graphs (R. Freij)

14:50–15:10 Reconstruction of Eigenfunctions of  $q$ -ary  $n$ -dimensional Hypercube (A. Vasil'Eva)

15:10–15:30 A Coding-based Approach to Robust Shortest-path Routing (Á. Barbero, Ø. Ytrehus)

### Coffee Break (15:30–16:00)

### Algebraic-Geometric Codes

16:00–16:20 Hyperbolic Lattices with Complete Labeling Derived from  $\{4g,4g\}$  Tessellations (C. Q. Queiroz, C. Benedito, J. C. Interlando, R. Pallazo Jr)

16:20–16:40 Lattice Encoding of Cyclic Codes from Skew-polynomial Rings (J. Ducoat, F. Oggier)

16:40–17:00 Cyclic Generalized Separable (L,G) Codes (S. Bezzateev)

17:00–17:20 On the Fan Associated to a Linear Code (N. Dück, I. Marquez-Corbella, E. Martinez-Moro)

## Tuesday 16

### Invited Talk

09:00–09:50 Convolutional Codes over Large Alphabets and their Decoding over the Erasure Channel (J. Rosenthal)

### Convolutional Codes

10:00–10:20 SPC Product Codes over the Erasure Channel (S. D. Cardell, J.-J. Climent)

10:20–10:40 Burst Erasure Correction of 2D Convolutional Codes (J.-J. Climent, D. Napp, R. Pinto, R. Simões)

10:40–11:00 From 1D Convolutional Codes to 2D Convolutional Codes of Rate  $1/n$  (P. Almeida, D. Napp, R. Pinto)

11:00–11:20 Minimal Realizations of Syndrome Formers of a Special Class of 2D Codes (E. Fornasini, T. Pinho, R. Pinto, P. Rocha)

### Coffee Break (11:20–11:40)

### Convolutional Codes and Quantum Codes

11:40–12:00 Cyclic Convolutional Codes over Separable Extensions (J. Gomez-Torrecillas, F. J. Lobillo, G. Navarro)

12:00–12:20 Input-State-Output Representation of Convolutional Product Codes (J.-J. Climent, V. Heranz, C. Perea)

12:20–12:40 On Extendibility of Additive Code Isometries (S. Dyshko)

12:40–13:00 Extending Construction X for Quantum Error-Correcting Codes (A. Degwekar, K. Guenda, A. Gulliver)

### Lunch (13:00–14:30)

### Social Program

## Wednesday 17

### Invited Talk

09:00–09:50 Lightweight Crypto and Constant Weight Codes (P. Solé)

### Cryptography

10:00–10:20 Cryptanalysis of Public-Key Cryptosystems that use Subcodes of Algebraic Geometry Codes (A. Couvreur, I. Márquez-Corbella, R. Pellikaan)

10:20–10:40 On Fibre Products of Kummer Curves with Many Rational Points over Finite Fields (B. G. Temür, F. Özbudak, O. Yayla)

10:40–11:00 Construction of Supplementary Dual Codes (C. Carlet, S. Guilley)

11:00–11:20 New Variant of the McEliece Cryptosystem (H. Moufek, K. Guenda)

### Coffee Break (11:20–11:40)

### Group Codes

11:40–12:00 On Quasi-Symmetric 2-(64, 24, 46) Designs derived from Codes (B. Rodrigues, V. Tonchev)

12:00–12:20 New Examples of Non-Abelian Group Codes (C. G. Pillado, S. González, V. Markov, C. Martinez, A. Nechaev)

12:20–12:40 Idempotents Generators for Minimal Cyclic Codes of Length  $p^n q$  (G. Bastos, M. Guerreiro)

12:40–13:00 2-Designs and Codes from Simple Groups  $L_3(q)$  and Higman-Sims Sporadic Simple Group  $HS$  (J. Moori, G. R. - Radohery)

### Lunch (13:00–14:30)

### Distributed and Storage Codes

14:30–14:50 On the Design of Storage Orbit Codes (S. Liu, F. Oggier)

14:50–15:10 Linear Batch Codes (H. Lipmaa, V. Skachek)

15:10–15:30 Constructions of Fast-Decodable Distributed Space-Time Codes (A. Barreal, C. Hollanti, N. Markin)

### Coffee Break (15:30–16:00)

### Network Coding 1

16:00–16:20 Subspace Codes and a Linkage Construction (H. Gluesing-Luerssen, K. Morrison, C. Troha)

16:20–16:40 Fractional Repetition and Erasure Batch Codes (N. Silberstein)

16:40–17:00 Generalized Partial Spread Codes (G. Micheli, J. Rosenthal, P. Vettori)

### Conference Dinner (19:30–22:30)

## Thursday 18

### Invited Talk

09:00–09:50 Separating the errors from the network – some implications of equivalence theory on network coding (M. Médard)

### Network Coding 2

10:00–10:20 Reachability of Random Linear Systems over Finite Fields (U. Helmke, J. Jordan, J. Lieb)

10:20–10:40 The one-out-of-k Retrieval Problem and Linear Network Coding (G. Bianchi, L. Bracciale, K. Censor-Hillel, A. Lincoln, M. Médard)

**Closing Session (11:00–11:20)**

**Coffee Break (11:20–11:40)**

**Lunch (13:00–14:30)**