

# Tuesday, June 13. Contributed Talks

## AULA 3

**15:00-15:30:** Linear dynamical systems for constructing observable convolutional codes with good decodable properties. Noemí De Castro-García.

**15:30-16:00:** Algebraic decoding for convolutional codes over modular integer rings. Ángel Luis Muñoz Castañeda.

**16:00-16:30:** An Algorithm to Compute a Minimal Input-State-Output Representation of a Convolutional Code. Verónica Requena.

## AULA 5

**15:00-15:30:** Matrix Nearness Problems with Rank-Structured Positive Definite Matrices. Lijiang Chen.

**15:30-16:00:** Quasiseparable representations of Green matrices. Yuli Eidelman.

**16:00-16:30:** Frames and Finite-rank Integral Representations of Positive Operator-Valued Measures. Jean-Pierre Gabardo.

## AULA 6

**15:00-15:30:** Problems related to data analysis in non-Euclidean spaces: iterative filtering for signals defined on the sphere. Roberto Cavassi.

**15:30-16:00:** Rational approximation for the recovery of short exponential sums. Nadiia Derevianko.

**16:00-16:30:** Finite time horizon mixed control of vibrational systems. Zoran Tomljanovic.

## AULA 6F

**15:00-15:30:** Is there a Kemeny's constant for second-order random walks? Dario Fasino.

**15:30-16:00:** On the directional derivative of Kemeny's constant. Kate Lorenzen.

**16:00-16:30:** An interactive user-friendly software supporting research in graph theory. Kristina Kostić.

## AULA 7

**15:00-15:30:** Combined matrices of diagonally equipotent matrices. Rafael Bru.

**15:30-16:00:** The range of combined matrices and doubly stochastic matrices. Begoña Cantó.

**16:00-16:30:** On combinatorial matrix majorizations. Alexander Guterman.

## AULA 10

15:00-15:30: CP decomposition and low-rank approximation of antisymmetric tensors. Erna Begovic.

15:30-16:00: On Q-tensor. Sunil Kumar.

16:00-16:30: Approximating manifold-valued functions. Simon Jacobson.

## AULA 11

15:00-15:30: Linear algebra in the category of linear systems. Miguel Carriegos.

15:30-16:00: Tropical Matrix Exponential. Ali M. Askar

16:00-16:30: Cyclic matrices, polynomial interpolation, and Sylvester equation over division rings. Vladimir Bolotnikov.

## AULA 12

15:00-15:30: On the max  $\$k\$$ -cut problem and the smallest signless Laplacian eigenvalue of a graph. Leonardo de Lima.

15:30-16:00: Existence of Characteristic-like Vertices on Trees with Matrix Weights. Sumit Mohanty.

16:00-16:30: Laplacian spectra of cographs: A twin reduction perspective. Sane Umesh Reddy.

## AULA 15

15:00-15:30: Symmetrization Techniques in Image Deblurring. Paola Ferrari.

15:30-16:00: Parallel High-Resolution Compact PFFT-Type Algorithms vs. Low-Dimensional Eigenvectors Solvers for 3D Subsurface Scattering Problems.. Yuri Gryazin.

16:00-16:30: Computation of the von Neumann entropy of large matrices via trace estimators and rational Krylov methods. Michele Rinelli.

## AULA 16

15:00-15:30: Sturm-Liouville problem and linear transformation on eigenpolynomials. Luis Miguel Angüas.

15:30-16:00: On a matrix perspective of Sobolev-type inner products and higher-order recurrence relations. Edmundo J. Huertas.

16:00-16:30: Matrix version of a three-term recurrence formula with rational coefficients for q-Hermite Sobolev-type orthogonal polynomials. Víctor Soto larrosa.

## AULA SEMINARIOS

**15:00-15:30:** A defect-correction algorithm for quadratic matrix equations, with applications to quasi-Toeplitz matrices. Beatrice Meini.

**15:30-16:00:** Recursion formulas for determinants of  $k$ -Tridiagonal Toeplitz Matrices. Eugene Agyei-Kodie.

**16:00-16:30:** Symbol-Based Convergence Analysis in (Block) Multigrid Methods for saddle-point problems. Isabella Furci.

Updated: 02 June 2023