MONDAY, June 12. Afternoon

MSI03. Semidefinite matrices: geometry and optimization.

17:00–17:30: **AULA 5**. A semidefinite program for least distortion
embeddings of flat tori into Hilbert spaces. Marc Christian Zimmerman.

17:30–18:00: **AULA 5**. The Difference-of-Convex
Algorithm and Quantum Conditional Entropy. Oisín Faust.

18:00–18:30: **AULA 5**. Deterministic Approximation
Algorithms for Volumes of Spectrahedra. Mahmut Levent Doğan.

18:30–19:00: **AULA 5**. Classifying Linear
Matrix Inequalities via Abstract Operator Systems. Tim Netzer.

MSI04. Matrix equations.

17:00–17:30: **AULA 15**. On a new family of low-rank algorithms
for large-scale algebraic Riccati equations. Heike Fassbender.

17:30–18:00: **AULA 15**. On computing modified moments for half-range Hermite and
Pollaczek-Hermite weights in floating point arithmetic. Nicola Mastronardi.

18:00–18:30: **AULA 15**. Balanced Truncation Model Reduction
of Parametric Differential-Algebraic Systems. Matthias Voigt.

18:30–19:00: **AULA 15**. A delayed shift technique
for M-matrix algebraic Riccati equations. Federico Poloni.

MSC02. New faces of spectral graph theory.

17:00–17:30: **AULA SEMINARIOS**. On the spectra of weighted digraphs. Miriam Pisonero.

17:30–18:00: **AULA SEMINARIOS**. Perfect state
transfer in quantum walks on orientable maps. Vincent Schmeits.

18:00–18:30: **AULA SEMINARIOS**. Spectra of normal Cayley graphs. Soffia Arnadottir.

18:30–19:00: **AULA SEMINARIOS**. NEPS of Complex Unit Gain Graphs. Francesco Belardo.

MSC03. Nonnegative matrices: spectral properties.

17:00–17:30: **AULA 3**. Universal Realizability on the border. Carlos Marijuán.

17:30–18:00: **AULA 3**. Smigoc's glue for
universal realizability on the left half-plane. Ricardo L. Soto.

18:00–18:30: **AULA 3**. More on polynomials preserving nonnegative matrices. Raphael Loewy.

MSC05. Bounded rank perturbations in matrix theory and related problems.

17:00-17:30: **AULA 16**. Minimal rank
   factorizations of low rank polynomial matrices. Froilán M. Dopico.

17:30-18:00: **AULA 16**. Combinatorics in matrix
   pencils completion and rank perturbation problems. Marko Stosic.

18:00-18:30: **AULA 16**. Minimal rank perturbations of matrix pencils. Marija Dodig.

18:30-19:00: **AULA 16**. Rank-one
   perturbation of linear relations via matrix pencils. Alicia Roca.

MSC06. Matrix and operator means.

17:00-17:30: **AULA 6F**. Matrix/Operator Mean Lagniappe. Jimmie Lawson.

17:30-18:00: **AULA 6F**. The Endpoint Geodesic
   Problem on Symmetric Spaces with Applications. Knut Hüper.

18:00-18:30: **AULA 6F**. Majorization
   and properties on Spectral geometric mean. Luyining Gan.

18:30-19:00: **AULA 6F**. Linearity of Cartan and Wasserstein geodesics. Sejong Kim.

MSC07. The interplay between linear–multilinear algebra and rational approximation.

17:00-17:30: **AULA 6**. Efficient computation of the Wright function. Lidia Aceto.

17:30-18:00: **AULA 6**. Numerical approximation of the symbol of an
   operator with local spectral mean values evaluations. Jean-Paul Chehab.

18:00-18:30: **AULA 6**. Efficient
   Inversion of Matrix ϕ-Functions of Low Order. Luca Gemignani.

18:30-19:00: **AULA 6**. Structured-barycentric forms and the AAA framework
   for modeling second-order dynamics from data. Ion Victor Gosea.

MSC12. Model reduction and learning reduced
   models through the lens of linear algebra and of optimization.

17:00-17:30: **AULA 10**. Optimal reduced-order
   modeling for structured linear systems. Petar Mlinaric.

17:30-18:00: **AULA 10**. H2 optimal model
   reduction for simply connected domains. Alessandro Borghi.

18:00-18:30: **AULA 10**. On multi-objective optimization
   of model reduction for port-Hamiltonian systems. Jonas Nicodemus.

18:30-19:00: **AULA 10**. Parametric Linearization of
   Nonlinear Dynamical Systems Subject to Periodic Inputs. Giovanni Coni.

MSC17. Pattern restricted inverse eigenvalue problems.

17:00–17:30: **AULA 12**. On the number of distinct
    eigenvalues allowed by a sign pattern. Kevin Vander Meulen.

17:30–18:00: **AULA 12**. Orthogonal Realizations of Random Sign Patterns. Bryan Curtis.

18:00–18:30: **AULA 12**. Zq–Forcing Game for Some Families of Graphs. Shahla Nasserasr.

MSC19. Totally positive matrices.

17:00–17:30: **AULA 7**. Some optimal
    properties related to Total Positivity. Juan Manuel Peña.

17:30–18:00: **AULA 7**. Bidiagonal decomposition of rectangular totally
    positive Lagrange–Vandermonde matrices and applications. Ana Marco.

18:00–18:30: **AULA 7**. Accurate computations with rectangular totally positive collocation
    matrices of the Lupas-type (p,q)-analogue of the Bernstein basis. Raquel Viaña.

18:30–19:00: **AULA 7**. On the total positivity
    of Gram matrices of polynomial bases. Esmeralda Mainar.

Updated: 02 June 2023