## TUESDAY, June 13. Afternoon

MSC02. New faces of spectral graph theory.
17:00-17:30: AULA SEMINARIOS. Semidefinite and eigenvalue
bounds for bicliques and biidependent sets. Luis Felipe Vargas.

17:30-18:00: AULA SEMINARIOS. Probing the
Structure of Graph Nullspaces with Zero Loci. Joshua Cooper.

18:00-18:30: AULA SEMINARIOS. Clique complexes of
strongly regular graphs and their eigenvalues. Sebastian M. Cioaba.

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

17:00-17:30: AULA 16. Generic skew-symmetric matrix
polynomials with bounded rank and fixed even grade. Andrii Dmytryshyn.

17:30-18:00: AULA 16. Generic
Hermitian matrix pencils with bounded rank. Fernando De Terán.

18:00-18:30: AULA 16. An interlacing result for
Hermitian matrices in Minkowski space. Madeleine van Straaten.

18:30-19:00: AULA 16. Spectral enclosures and resolvent
estimates for matrix and operator polynomials. Christiane Tretter.

## MSC06. Matrix and operator means.

17:00-17:30: AULA 11. Approximation
results for generalized operator means. Miklós Pálfia.

17:30-18:00: AULA 11. Regression on the
manifold of fixed rank positive semidefinite matrices. Hosoo Lee.

18:00-18:30: AULA 11. Matrix Means on Grassmann Manifolds. Tin-Yau Tam.

## MSC07. The interplay between linear-multilinear algebra and rational approximation.

17:00-17:30: AULA 6. Rational extrapolation methods, Anderson
acceleration, and solution of systems of equations. Claude Brezinski.

17:30-18:00: AULA 6. On generalized inverse of a
vector, with applications to vector epsilon algorithm. Ahmed Salam.

18:00-18:30: AULA 6. Computing
the generalized rational minimax approximation. Nir Sharon.

18:30-19:00: AULA 6. Perfect shifts for Hessenberg-Hessenberg pencils. Marc Van Barel.

19:00-19:30: AULA 6. A Rational Preconditioner for
Multi-dimensional Riesz Fractional Diffusion Equations. Mariarosa Mazza.

## MSC17. Pattern restricted inverse eigenvalue problems.

17:00-17:30: AULA 12. Minimum rank bounds
for cobipartite graphs and zero-nonzero patterns. Louis Deaett.

17:30-18:00: AULA 12. The difficulty of minimum rank 3. Alathea Jensen.

18:00-18:30: AULA 12. Generic realisability and applications. Rupert Levene.

18:30-19:00: AULA 12. The number
of distinct eigenvalues of joins of graphs. Mark Kempton.

## MSC19. Totally positive matrices.

17:00-17:30: AULA 7. Accurate eigenvalues of some generalized sign regular matrices via relatively robust representations. Rong Huang.

17:30-18:00: AULA 7. Bidiagonal decompositions of singular sign regular matrices of signature (1, . . . , 1, -1). Plamen Koev.

18:00-18:30: AULA 7. Tropical totally positive matrices. Adi Niv.

18:30-19:00: AULA 7. Linear Algebra
in Approximation Theory: a new hope. José-Javier Martínez.

## MSC20. Euclidean Jordan algebras and related systems.

17:00-17:30: AULA 5. Fan-Theobald-von Neumann systems. Muddappa Gowda.

17:30-18:00: AULA 5. A Fiedler-type
determinantal inequality in Euclidean Jordan algebras. David Sossa.

18:00-18:30: AULA 5. Jordan automorphisms
and derivatives of symmetric cones. Michael Orlitzky.

18:30-19:00: AULA 5. On certain properties of the
second order cone and some of its generalizations. Roman Sznajder.

19:00-19:30: AULA 5. Hadamard product and
related inequalities in the Jordan spin algebra. Juyoung Jeong.

MSC22. State-of-the-art in algorithms and applications.
17:00-17:30: AULA 10. A Low-complexity
Algorithm in Navigating Unmanned Aerial Systems. Sirani M. Perera.

17:30-18:00: AULA 10. A Vandermonde Neural Operator: Extending the
Fourier Neural Operator to Nonequispaced Distributions. Levi Lingsch.

18:00-18:30: AULA 10. Computing Approximate Solutions of
Ill-Conditioned Linear Systems in Low and Mixed Precision. James Nagy.

18:30-19:00: AULA 10. Solving an inverse eigenvalue
problem using a divide-and-conquer method. Natalia Bebiano.

MSC23. Tensors and quantum information.
17:00-17:30: AULA 6F. Apolarity for border rank and applications. Jaroslaw Buczynski.

17:30-18:00: AULA 6F. On the complexity of finding tensor ranks. Mohsen Aliabadi.

18:00-18:30: AULA 6F. Tensor optimal transport. Shmuel Friedland.

18:30-19:00: AULA 6F. Entropic characterization of the
spectral radius of nonnegative tensors and beyond. Stéphane Gaubert.

## MSC26. Bohemian matrices and related topics in matrix theory.

17:00-17:30: AULA 15. On Eigenvalue Gaps of Integer Matrices. Jamie Pommersheim.

17:30-18:00: AULA 15. On the orthogonal decomposition of real square matrices over the co-Latin and semi-magic symmetry classes. Matthew Lettington.

18:00-18:30: AULA 15. Inner Bohemian matrices. Juana Sendra.

18:30-19:00: AULA 15. Computing the maximum spread of
a Bohemian symmetric matrix with entries in [a, b]. Rafael Sendra.

19:00-19:30: AULA 15. On the the eigenvalues
of (Bohemian) Q-matrices and P-matrices. Laureano González-Vega.

