

CONTRIBUTED TALKS

- Ahn, Eunkyung:** Thursday, June 19, 17:45, Room 4
An extended Lie-Trotter formula and its applications (with Sejong Kim and Yongdo Lim)
- Al Zhou, Zeyad:** Thursday, June 19, 11:25, Room 5
Matrix Results on Weighted Drazin Inverse and Some Applications (with Adem Kiliçman)
- Andjelic, Milica:** Friday, June 20, 10:35, Room 3
One upper bound for the largest eigenvalue of the signless Laplacian (with Slobodan Simić)
- Arav, Marina:** Tuesday, June 17, 10:35, Room 3
Sign Patterns That Require Almost Unique Rank (with Frank Hall, Zhongshan Li, Assefa Merid, Yubin Gao)
- Barría, José:** Friday, June 20, 16:20, Room 4
The strong closure of the similarity orbit for a class of pairs of finite rank operators
- Bengochea, Gabriel:** Friday, June 20, 11:00, Room 4
Duality in the Hopf Algebra of multivariate polynomials
- Bourgeois, Gerald:** Monday, June 16, 17:20, Room 4
About the logarithm function over the matrices
- Bru, Rafael:** Monday, June 16, 18:10, Room 3
On some classes of H -matrices (with Ljiljana Cvetković, Vladimir Kostić and Francisco Pedroche)
- Bueno Cachadina, María Isabel:** Tuesday, June 17, 17:20, Room 4
Algorithms for computing the Geronimus Transformation
- Carriegos, Miguel:** Tuesday, June 17, 11:50, Room 4
Reachability of regular switched linear systems
- Castro-González, Nieves:** Friday, June 20, 11:25, Room 4
Representations for the generalized Drazin inverse of additive perturbations (with M.F. Martínez-Serrano)
- Cheng, Wei:** Friday, June 20, 17:10, Room 4
One Type of Inverse Eigenvalue Problems in Quaternionic Quantum Mechanics (with Liang-gui Feng)
- Corral, Cristina:** Monday, June 16, 11:10, Room 3
On Schur complements of H -matrices (with R. Bru, I. Giménez, J. Mas)
- Cortés, Vanesa:** Friday, June 20, 15:30, Room 3
Some properties of the class sign regular matrices and its subclasses (with J.M. Peña)

- Costa, Liliana:** Monday, June 16, 10:45, Room 4
Acyclic Birkhoff Polytope (with C.M. da Fonseca and Enide Andrade Martins)
- Cravo, Glória:** Tuesday, June 17, 10:35, Room 4
Controllability of Matrices with Prescribed Blocks
- da Cruz, Henrique F.:** Thursday, June 19, 18:10, Room 4
On the matrices that preserve the value of the immanant of the upper triangular matrices (with Rosário Fernandes)
- Day, Jane:** Thursday, June 19, 16:55, Room 3
Graph Energy Change Due to Edge Deletion
- Sánchez Perales, Salvador:** Thursday, June 19, 11:00, Room 3
Manifold of proper elements (with S. Djordevic)
- Dodig, Marija:** Monday, June 16, 10:45, Room 3
Singular systems, state feedback problem
- Dolinar, Gregor:** Thursday, June 19, 17:20, Room 4
General preservers of quasi-commutativity (with Bojan Kuzma)
- Domínguez, María Elena:** Monday, June 16, 17:20, Room 3
General solution of certain matrix equations arising in filter design applications
- Dopazo, Esther:** Friday, June 20, 10:35, Room 4
Further results on the representation of the Drazin inverse of a 2×2 block matrix (with M.F. Martínez-Serrano and N. Castro-González)
- Esen, Özlem:** Friday, June 20, 17:10, Room 3
On The Root Clustering of Matrices
- Fernandes, Rosário:** Monday, June 16, 11:10, Room 4
Rank partitions and covering numbers under small perturbations of an element
- Ferrer, Josep:** Tuesday, June 17, 12:15, Room 4
Geometric structure of the equivalence classes of a controllable pair (with A. Compta, and M. Peña)
- Fonseca, Carlos:** Thursday, June 19, 12:15, Room 3
An inequality for the multiplicity of an eigenvalue
- Fosner, Ajda:** Monday, June 16, 11:35, Room 3
Commutativity preserving maps on real matrices
- Frank, Martin:** Tuesday, June 17, 17:45, Room 4
An iterative method for transport equations in radiotherapy (with Bruno Dubroca)
- Furtado, Susana:** Thursday, June 19, 11:25, Room 3
Order Invariant Spectral Properties for Several Matrices (with Charles Johnson)
- Furuichi, Shigeru:** Monday, June 16, 16:55, Room 4
On trace inequalities for products of matrices

Gassó, Maria T.: Tuesday, June 17, 12:15, Room 3

The class of Inverse-Positive matrices with checkerboard pattern (with Manuel F. Abad, and Juan R. Torregrosa)

Glebsky, Lev: Tuesday, June 17, 11:50, Room 3

On low rank perturbations of matrices (with Luis Manuel Rivera)

Goldberger, Assaf: Friday, June 20, 16:20, Room 3

An upper bound on the characteristic polynomial of a nonnegative matrix leading to a proof of the Boyle–Handleman conjecture (with Michael Neumann)

Gouveia, María: Monday, June 16, 16:55, Room 3

On a singular Toeplitz pencil

Grudsky, Sergey: Monday, June 16, 18:35, Room 3

Uniform boundedness of Toeplitz Matrices with variable coefficients

Guzmán, José Ramón: Friday, June 20, 15:30, Room 4

Reduction of an Ito's diffusion input output model for the determination of square mean stability

Hanaish, Ibrahim: Thursday, June 19, 17:45, Room 5

Shrinkage Estimators for Estimation the Multivariate Normal Mean Vector under Degrees of Distrust (with Abdunnabi M. Ali Elbouzedi)

Horn, Roger: Monday, June 16, 12:00, Room 3

A Canonical Form for Quasi-Real Normal Matrices Under Real Orthogonal Similarity (with Geoffrey R. Goodson)

Im, Bokhee: Thursday, June 19, 11:00, Room 5

Representations of trilinear products in Comtrans algebras (with Jonathan D. H. Smith)

Kaibah, Hussein: Thursday, June 19, 18:10, Room 5

Asymptotic Behavior of Solutions of Stochastic Equations and Applications in Statistical Parameter Estimation

Kopparty, Bhaskara Rao: Monday, June 16, 18:10, Room 2

Generalized inverses of infinite matrices

Kortesi, Peter: Thursday, June 19, 10:35, Room 5

Using Linear Algebra in Teaching Hamilton Quaternions and Graphs

Lee, Gue Myung: Thursday, June 19, 18:35, Room 4

Complexity Analysis of the Primal-Dual Interior Point Method for Second-order Cone Optimization Problem (with Bo Kyung Choi)

- Lee, Hosoo:** Monday, June 16, 18:35, Room 4
 Contractions and nonlinear matrix equations on positive definite cones (with Yongdo Lim)
- Machado, Silvia:** Monday, June 16, 16:55, Room 2
 GPEA's researches about the meta resources in teaching and learning the notion of basis of a vector space (with Bianchini, B.L. and Maranhão, M.C.S.A.)
- Marovt, Janko:** Thursday, June 19, 11:00, Room 4
 Homomorphisms of matrix semigroups over division rings from dimension two to three (with Gregor Dolinar)
- Marques, Maria-da-Graça:** Thursday, June 19, 16:55, Room 4
 Some conditions for the commutativity of matrix patterns (with C.R. Johnson)
- Martínez, José-Javier:** Tuesday, June 17, 18:35, Room 4
 Polynomial regression in the Bernstein basis (with Ana Marco)
- Martins, Enide:** Friday, June 20, 11:00, Room 3
 On the spectra of some graphs like weighted rooted trees (with Rosário Fernandes and Helena Gomes)
- Mikkelsen, Rana:** Thursday, June 19, 17:20, Room 3
 Minimum Rank of Graphs with Loops
- Milligan, Thomas:** Friday, June 20, 15:55, Room 4
 On Euclidean Squared Distance Matrices (with Chi-Kwong Li and Michael Trossett)
- Mitchell, Lon:** Thursday, June 19, 18:10, Room 3
 Orthogonal Removal of Vertices and Minimum Semidefinite Rank (with Sivaram Narayan)
- Narayan, Sivaram:** Friday, June 20, 12:15, Room 3
 Linearly Independent Vertices and Minimum Semidefinite Rank
- Olshevsky, Vadim:** Thursday, June 19, 11:25, Room 4
 Can One Invert a Matrix via Graph Manipulations? (with Tom Bella and Pavel Zhlobich)
- Palma, Alejandro:** Thursday, June 19, 11:50, Room 4
 Solution of the linear time-dependent potential by using a solvable Lie algebra* (with M. Villa, and L. Sandoval)
- Patricio, Pedro:** Friday, June 20, 11:50, Room 4
 Some additive results on Drazin Inverses (with R.E. Hartwig)
- Peña, Marta:** Tuesday, June 17, 11:00, Room 4
 Perturbations preserving conditioned invariant subspaces (with A. Compta and J. Ferrer)
- Perdigão, Cecília:** Thursday, June 19, 17:45, Room 3
 On the equivalence class graph (with Rosário Fernandes)

- Poole, George:** Monday, June 16, 17:20, Room 2
Whatever Happened to Rook's Pivoting?
- Prokip, Volodymyr:** Thursday, June 19, 16:55, Room 5
On the problem of diagonalizability of matrices over a principal ideal domain
- Protasov, Vladimir:** Wednesday, June 18, 11:50, Room 4
 p -radii of linear operators and equations of self-similarity
- Pruneda, Rosa E.:** Tuesday, June 17, 11:00, Room 3
Complete Orthogonal Decomposition Compared with Direct Projection Methods
(with Beatriz Lacruz)
- Rakotondrajao, Fanja:** Thursday, June 19, 17:20, Room 5
Euler's difference table and maximum permanents of $(0, 1)$ -matrices
- Roca, Alicia:** Tuesday, June 17, 11:25, Room 4
Pencils with Prescribed Constant Subpencils (with F.C. Silva)
- Rodríguez, Juan Alberto:** Friday, June 20, 11:50, Room 3
The Laplacian Spectrum of Hypergraphs (with Aida Kamisalic)
- Rump, Siegfried M.:** Monday, June 16, 17:45, Room 3
The ratio between the Toeplitz and the unstructured condition number (with H. Sekigawa)
- Russo, Maria Rosaria:** Tuesday, June 17, 16:55, Room 4
On some general determinantal identities of Sylvester type (with Michela Redivo-Zaglia)
- Salam, Ahmed:** Tuesday, June 17, 18:10, Room 4
A structure-preserving Arnoldi-like method for a class of structured matrices
- Satô, Kenzi:** Thursday, June 19, 12:15, Room 4
The algebraic relations of curvatures of PL manifolds
- Schaeffer, Elisa:** Friday, June 20, 11:25, Room 3
Locally computable approximations of absorption times for graph clustering (with Pekka Orponen and Vanesa Avalos)
- Schaffrin, Burkhard:** Wednesday, June 18, 11:00, Room 4
Total least-squares regularization of Tykhonov type and an ancient racetrack in Corinth (with Kyle Snow)
- Sebeldin, Anatoly:** Thursday, June 19, 11:50, Room 5
Algorithm resolving problem of determination of finite cyclicgroup by its automorphism group (with V.K. Vildanov and A.L. Sylla)
- Seddighin, Morteza:** Wednesday, June 18, 12:15, Room 4
Matrix Optimization in Statistics

- Semrl, Peter:** Tuesday, June 17, 11:25, Room 3
Locally linearly dependent operators
- Sendov, Hristo:** Thursday, June 19, 11:50, Room 3
Spectral Manifolds (with A. Daniilidis, J. Malick, and A. Lewis)
- Shahryari, Mohammad:** Thursday, June 19, 12:15, Room 5
 Z_2 -graded symmetry classes of tensors
- Sinkovic, John:** Thursday, June 19, 18:35, Room 3
An upper bound for the maximum nullity of a symmetric matrix whose graph is outerplanar
- Sivic, Klemen:** Thursday, June 19, 10:35, Room 4
On varieties of commuting triples
- Soares, Graça:** Monday, June 16, 17:45, Room 4
Inequalities on an indefinite inner product space (with N. Bebiano et al.)
- Stosic, Marko:** Monday, June 16, 12:25, Room 3
On Generalized Procrustes Problem (with João Xavier)
- Stuart, Jeffrey:** Monday, June 16, 11:35, Room 4
Spectrally Arbitrary Ray Patterns
- Teixeira Matos, Isabel:** Friday, June 20, 15:55, Room 3
A Completion Problem over the Field of Real Numbers (with Fernando C. Silva)
- Uchiyama, Mitsuru:** Monday, June 16, 18:10, Room 4
A New Majorization between functions
- Uhlig, Frank:** Wednesday, June 18, 10:35, Room 4
Convex and Non-convex Optimization Problems for the Field of Values of a Matrix
- Vallejo, Ernesto:** Monday, June 16, 12:25, Room 4
Additivity obstructions for integral matrices and pyramids (with Miguel Santoyo)
- Vargas, Xaab Nop:** Monday, June 16, 17:45, Room 2
Students difficulties with concept of vector space from point of view of APOS Theory
- Verde-Star, Luis:** Friday, June 20, 12:15, Room 4
Linear algebraic approach to rational functions
- Vieira, Luis:** Monday, June 16, 18:35, Room 2
Euclidean Jordan algebras and inequalities on the parameters and on the spectra of a strongly regular graph
- Weaver, James:** Monday, June 16, 12:00, Room 4
Nonsingularity of Divisor Tournaments (with Rohan Hemasinha and Jeffrey L. Stuart)
- Wojciechowski, Piotr:** Friday, June 20, 16:45, Room 3
Orderings of matrix algebras and their applications

Wrobel, Iwona: Thursday, June 19, 10:35, Room 3
The Gauss-Lucas theorem and the numerical range

Wu, Pei Yuan: Wednesday, June 18, 11:25, Room 4
Numerical ranges of nilpotent operators (with Hwa-Long Gau)