15-th Conference
of the
International Linear Algebra Society

Westin Resort and Spa
Cancún, México
June 16–20, 2008

Organizing Committee

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Departamento de Matemáticas, UAM-Iztapalapa

Instituto de Matemáticas, Universidad Nacional Autónoma de México

Dirección General de Asuntos del Personal Académico, UNAM (Proyectos PAPIIT y PAEP)

Universidad Autónoma del Estado de Hidalgo

International Linear Algebra Society

Taylor and Francis

Personal Schedule

Monday	Tuesday	Wednesday	Thursday	Friday
8:10 Opening ceremony	8:10 N. Shaked-Monderer	8:10 J. M. Peña	8:10 H. Fassbender	8:10 P. Rosenthal
8:20 L. Hogben	9:05 Mini-break	9:05 Mini-break	9:05 Mini-break	9:05 Mini-break
9:15 Mini-break	9:10 D. Kressner	9:10 J. Nagy	9:10 P. Van Dooren	9:10 I. Spitkovsy
9:20 E. Jiang	10:05 Coffee break	10:05 Coffee break	10:05 Coffee break	10:05 Coffee break
10:15 Coffee break	10:35	10:35	10:35	10:35
10:45	11:00	11:00	11:00	11:00
11:10	11:25	11:25	11:25	11:25
11:35	11:50	11:50	11:50	11:50
12:00	12:15	12:15	12:15	12:15
12:25	12:40–15:30 Lunch break	12:40–13:30 Lunch break	12:40–14:00 Lunch break	12:40–15:30 Lunch break
12:50–15:30 Lunch break	15:30 F. M. Dopico	13:30–19:00 Excursion to Tulum	14:00 ILAS Business Meeting	15:30
15:30 A. Boettcher	16:25 Coffee break		15:30 L. Gemignani	15:55
16:25 Coffee break	16:55		16:25 Coffee break	16:20
16:55	17:20		16:55	16:45
17:20	17:45		17:20	17:10
17:45	18:10		17:45	17:35 Closing Ceremony
18:10	18:35		18:10	
18:35			18:35	
			20:00 Banquet	

15th ILAS Conference, Cancún, June 16–20, 2008

Morning sessions

Monday	Tuesday	Wednesday	Thursday	Friday
8:10–8:20 Opening ceremony	8:10–9:05 IPL N. Shaked-Monderer	8:10–9:05 IPL J. M. Peña	8:10–9:05 IPL H. Fassbender	8:10–9:05 IPL P. Rosenthal
8:20–9:15 IPL L. Hogben	9:05–9:10 Mini-break	9:05–9:10 Mini-break	9:05–9:10 Mini-break	9:05–9:10 Mini-break
9:15– 9:20 Mini-break	9:10–10:05 IPL D. Kressner	9:10–10:05 IPL J. Nagy	9:10–10:05 IPL P. Van Dooren	9:10–10:05 IPL I. Spitkovsy
9:20–10:15 IPL E. Jiang	10:05–10:35 Coffee break	10:05–10:35 Coffee break	10:05–10:35 Coffee break	10:05–10:35 Coffee break
10:15–10:45 Coffee break	10:35–12:40 Parallel session 3 5 talks of 25min MS6, MS8, CT	10:35–12:40 Parallel session 5 5 talks of 25min MS1, MS4, MS7, CT	10:35–12:40 Parallel session 6 5 talks of 25min MS1, MS5, CT	10:35–12:40 Parallel session 8 5 talks of 25min MS2, MS3, CT
10:45– 12:50 Parallel session 1 5 talks of 25min MS4, MS7, CT	12:40–15:30 Lunch break	12:40–13:30 Lunch break	12:40–14:00 Lunch break	12:40–15:30 Lunch break
12:50–15:30 Lunch break		13:30–19:00 Excursion to Tulum		

Afternoon sessions

Monday	Tuesday	Wednesday	Thursday	Friday
			14:00–15:25 ILAS Business Meeting	
15:30–16:25 IPL A. Boettcher	15:30–16:25 IPL F. M. Dopico	Excursion to Tulum	15:30–16:25 IPL L. Gemignani	15:30–17:35 Parallel session 9 5 talks of 25min MS1, MS5, CT
16:25–16:55 Coffee break	16:25–16:55 Coffee break		16:25–16:55 Coffee break	
16:55–19:00 Parallel session 2 5 talks of 25min MS8, CT	16:55–19:00 Parallel session 4 5 talks of 25min MS4, MS6, MS7,CT		16:55–19:00 Parallel session 7 5 talks of 25min MS2, MS3, CT	17:35–17:45 Closing ceremony
			20:00 ILAS Banquet	

IPL means Invited Plenary Talk. (Salón Pintores)

MS1 Combinatorial Matrix Theory; Parallel Sessions 5, 6, 9.
MS2 Eigenproblems: Theory and computation; Parallel Sessions 7, 8.
MS3 Implementation and Application issues in regularizing least squares and total least squares; Parallel Sessions 7, 8.
MS4 Linear Algebra Education; Parallel Sessions 1, 4, 5.
MS5 Linear Algebra in Model Reduction; Parallel Sessions 6, 9.
MS6 Matrix functions and matrix equations; Parallel Sessions 3, 4.
MS7 Max Algebra; Parallel Sessions 1, 4, 5.
MS8 Nonnegative and eventually nonnegative matrices; Parallel Sessions 2, 3.
CT Contributed talks, all Parallel Sessions

Invited plenary lectures

Monday 8:20–9:15	**Leslie Hogben** (Ames, Iowa, USA) Minimum Rank Problems: Recent Developments
Monday 9:20–10:15	**ErXiong Jiang** (Shanghai, China) Some inverse eigenvalue problems for Jacobi matrices
Monday 15:30–16:25	**Albrecht Boettcher** (Chemnitz, Germany) Toeplitz matrices with Fisher-Hartwig symbols
Tuesday 8:10–9:05	**Naomi Shaked-Monderer** (Emek Yezreel, Israel) Completely Positive Matrices and the CP-rank
Tuesday 9:10–10:05	**Daniel Kressner** (Zurich, Switzerland) Matrix product eigenvalue problems
Tuesday 15:30–16:25	**Froilán M. Dopico** (Madrid, Spain) Implicit Jacobi algorithms for the symmetric eigenproblem
Wednesday 8:10–9:05	**Juan Manuel Peña** (the LAMA Lecture) (Zaragoza, Spain) From Total Positivity to Positivity: related classes of matrices
Wednesday 9:10–10:05	**James Nagy** (the SIAM Lecture) (Atlanta, Georgia, USA) Kronecker Products in Imaging Sciences
Thursday 8:10–9:05	**Heike Fassbender** (Braunschweig, Germany) Structured Methods for Eigenproblems with Hamiltonian Spectral Symmetry
Thursday 9:10–10:05	**Paul Van Dooren** (Louvain, Belgium) Some graph optimization problems in data mining
Thursday 15:30–16:25	**Luca Gemignani** (Pisa, Italy) Eigenvalue Problems for Rank-structured Matrices
Friday 8:10–9:05	**Peter Rosenthal** (Toronto, Canada) Invariant subspaces of semigroups of matrices
Friday 9:10–10:05	**Ilya Spitkovsky** (Williamsburg, Virginia, USA) On the current state of the factorization problem for almost periodic matrix functions

Mini Symposia

MS1 Combinatorial Matrix Theory. Parallel Sessions 5, Wed. morning; 6, Thu. morning; 9, Fri. afternoon.

Organizers: Leslie Hogben, Iowa State University, and Bryan Shader, University of Wyoming.

MS2 Eigenproblems: Theory and computation. Parallel Sessions 7, Thu. afternoon; 8, Fri. morning.

Organizer: Julio Moro, Universidad Carlos III de Madrid.

MS3 Implementation and Application issues in regularizing least squares and total least squares. Parallel Sessions 7, Thu. afternoon; 8, Fri. morning.

Organizer: Rosie Renaut, Arizona State University.

MS4 Linear Algebra Education. Parallel Sessions 1, Mon. morning; 4, Tue. afternoon; 5, Wed. morning.

Organizers: María Trigueros, Instituto Tecnológico Autónomo de México, and Asuman Oktaç, Centro de Investigación y Estudios Avanzados, IPN, México, and PUCV, Chile.

MS5 Linear Algebra in Model Reduction. Parallel Sessions 6, Thu. morning; 9, Fri. afternoon.

Organizer: Peter Benner, Chemnitz University of Technology, Germany.

MS6 Matrix functions and matrix equations. Parallel Sessions 3, Tue. morning; 4, Tue. afternoon.

Organizers: Peter Lancaster, University of Calgary, Canada, and Chun-Hua Guo, University of Regina, Canada.

MS7 Max Algebra. Parallel Sessions 1, Mon. morning; 4, Tue. afternoon; 5, Wed. morning.

Organizers: Hans Schneider, University of Wisconsin, and Peter Butkovic, University of Birmingham, UK.

MS8 Nonnegative and eventually nonnegative matrices. Parallel Sessions 2, Mon. afternoon; 3, Tue. morning.

Organizer: Judi McDonald, Washington State University, USA.

Parallel Session 1, Monday Morning

Time	MS4 Room 1	MS7 Room 2	CT Room 3	CT Room 4
10:45	Harel, Guershon	Gaubert, Stephane	Dodig, Marija	Costa, Liliana
11:10	Dogan-Dunlap, Hamide	van den Driessche, Pauline	Corral, Cristina	Fernandes, Rosário
11:35	Maracci, Mirko	McEneaney, William	Fošner, Ajda	Stuart, Jeffrey
12:00	Parraguez, Marcela	Zimmermann, Karel	Horn, Roger	Weaver, James
12:25	Trigueros, María	Ponce, Daniela	Stosic, Marko	Vallejo, Ernesto

MS4 Linear Algebra Education, Monday Morning, Room 1

- 10:45 Intellectual Need and Its Role in Mathematics Instruction: Focus on Linear Algebra
  Harel, Guershon, University of California, San Diego, USA
- 11:10 Thinking Modes Revealed on Students' Responses from an Assignment on Linear Independence
  Dogan-Dunlap, Hamide, University of Texas at El Paso, USA
- 11:35 Basic notions of Vector Space Theory: students' models and conceptions
  Maracci, Mirko, Siena University, Italy
- 12:00 Construction of a vector space schema
  Parraguez, Marcela, PUCV, Chile (with Oktaç, Asuman)
- 12:25 Spanning sets and vector spaces they generate: an APOS analysis
  Trigueros, María, Instituto Tecnológico Autónomo de México (with Ku, Darly and Oktaç, Asuman)

MS7 Max Algebra, Monday Morning, Room 2

- 10:45 Using max-plus eigenvalues to bound the roots of a polynomial
  Gaubert, Stephane, INRIA, Paris, France (with Marianne Akian (INRIA)and Adrien Brandejsky (ENS Cachan))
- 11:10 Bounds for the Perron root using max eigenvalues
  van den Driessche, Pauline, University of Victoria, Canada (with Elsner, Ludwig)
- 11:35 Max-Plus Bases, Cornices and Pruning
  McEneaney, William, University of California, San Diego, USA
- 12:00 Solving two-sided (max,plus)-linear equation systems
  Zimmermann, Karel, Charles University, Prague, Czech Republic
- 12:25 NP-hard problems in extremal algebras tackled by particle swarm optimization
  Ponce, Daniela, University of Hradec Kralove, Czech Republic (with Gavalec, Martin)

Contributed Talks, Monday Morning, Room 3

- Mon. 10:45 Singular systems, state feedback problem
  Dodig, Marija, CELC, Universidade de Lisboa, Lisbon, Portugal
- Mon. 11:10 On Schur complements of H-matrices
  Corral, Cristina, Universidad Politécnica de Valencia, Valencia, Spain (with R. Bru, I. Giménez, J. Mas)
- Mon. 11:35 Commutativity preserving maps on real matrices
  Fošner, Ajda, Institute of Mathematics, Physics and Mechanics, Ljubljana, Slovenia
- Mon. 12:00 A Canonical Form for Quasi-Real Normal Matrices Under Real Orthogonal Similarity
  Horn, Roger, University of Utah, Salt Lake City, USA (with Geoffrey R. Goodson)
- Mon. 12:25 On Generalized Procrustes Problem
  Stosic, Marko, Instituto de Sistemas e Robotica, IST, Lisbon, Portugal (with João Xavier)

Contributed Talks, Monday Morning, Room 4

- Mon. 10:45 Acyclic Birkhoff Polytope
  Costa, Liliana, Centre for Research on Optimization and Control, Aveiro, Portugal (with C. M. da Fonseca and Enide Andrade Martins)
- Mon. 11:10 Rank partitions and covering numbers under small perturbations of an element
  Fernandes, Rosário, Centro de Estruturas Lineares e Combinatórias (CELC), Lisboa, Portugal
- Mon. 11:35 Spectrally Arbitrary Ray Patterns
  Stuart, Jeffrey, Pacific Lutheran University, Tacoma, USA
- Mon. 12:00 Nonsingularity of Divisor Tournaments
  Weaver, James, University of West Florida, Pensacola, FL 32514, USA (with Rohan Hemasinha and Jeffrey L. Stuart)
- Mon. 12:25 Additivity obstructions for integral matrices and pyramids
  Vallejo, Ernesto, Instituto de Matemáticas, Morelia, México (with Miguel Santoyo)

Parallel Session 2, Monday Afternoon

Time	MS8 Room 1	CT Room 2	CT Room 3	CT Room 4
16:55	McDonald, Judith	Machado, Silvia	Gouveia, María	Furuichi, Shigeru
17:20	Šmigoc, Helena	Poole, George	Domínguez, María Elena	Bourgeois, Gerald
17:45	Laffey, Thomas	Vargas, Xaab Nop	Rump, Siegfried M.	Soares, Graça
18:10	Eubanks, Sherod	Kopparty, Bhaskara Rao	Bru, Rafael	Uchiyama, Mitsuru
18:35	Catral, Minerva	Vieira, Luis	Grudsky, Sergey	Lee, Hosoo

MS8 Nonnegative and eventually nonnegative matrices, Monday Afternoon, Room 1

- 16:55 Nonnegative and Eventually Nonnegative Matrices
  McDonald, Judith, Washington State University, USA
- 17:20 An example of constructing a nonnegative matrix with given spectrum
  Šmigoc, Helena, University College Dublin (with Laffey, Thomas)
- 17:45 Some constructive techniques in the nonnegative inverse eigenvalue problem
  Laffey, Thomas, University College Dublin (with Šmigoc, Helena)
- 18:10 Generalized Soules Matrices
  Eubanks, Sherod, Washington State University, USA
- 18:35 The Kemeny Constant in Finite Homogeneous Ergodic Markov Chains
  Catral, Minerva, University of Victoria, Canada

Contributed Talks, Monday Afternoon, Room 2

- Mon. 16:55 GPEA's researches about the meta resources in teaching and learning the notion of basis of a vector space
  Machado, Silvia, Pontificia Universidade Catolica de São Paulo, São Paulo, Brasil (with Bianchini, B. L. and Maranhão, M. C. S. A.)
- Mon. 17:20 Whatever Happened to Rook's Pivoting?
  Poole, George, East Tennessee State University, Johnson City, USA
- Mon. 17:45 Students difficulties with concept of vector space from point of view of APOS Theory
  Vargas, Xaab Nop, ICYTDF, México, México
- Mon. 18:10 Generalized inverses of infinite matrices
  Kopparty, Bhaskara Rao, Indiana State University, Terre Haute, IN, USA

- Mon. 18:35 Euclidean Jordan algebras and inequalities on the parameters and on the spectra of a strongly regular graph
  Vieira, Luis, Feup, Porto, Portugal

Contributed Talks, Monday Afternoon, Room 3

- Mon. 16:55 On a singular Toeplitz pencil
  Gouveia, María, Department of Mathematics, FCTUC, Coimbra, Portugal
- Mon. 17:20 General solution of certain matrix equations arising in filter design applications
  Domínguez, María Elena, Universidad Politécnica de Madrid, Madrid, Spain
- Mon. 17:45 The ratio between the Toeplitz and the unstructured condition number
  Rump, Siegfried M., Hamburg University of Technology, Hamburg, Germany (with H. Sekigawa)
- Mon. 18:10 On some classes of H-matrices
  Bru, Rafael, Univ. Politécnica, Valencia, Spain (with Ljiljana Cvetković, Vladimir Kostić and Francisco Pedroche)
- Mon. 18:35 Uniform boundedness of Toeplitz Matrices with variable coefficients
  Grudsky, Sergey, CINVESTAV del I.P.N., México, México

Contributed Talks, Monday Afternoon, Room 4

- Mon. 16:55 On trace inequalities for products of matrices
  Furuichi, Shigeru, Nihon University, Tokyo, Japan
- Mon. 17:20 About the logarithm function over the matrices
  Bourgeois, Gerald, Faculté de Luminy, Marseille, France
- Mon. 17:45 Inequalities on an indefinite inner product space
  Soares, Graça, University of Tras-os-Montes and Alto Douro, Vila Real, Portugal (with N. Bebiano et al.)
- Mon. 18:10 A New Majorization between functions
  Uchiyama, Mitsuru, Shimane University, Matsue, Shimane, Japan
- Mon. 18:35 Contractions and nonlinear matrix equations on positive definite cones
  Lee, Hosoo, Kyungpook National University, Daegu, Korea (with Yongdo Lim)

Parallel Session 3, Tuesday Morning

Time	MS6 Room 1	MS8 Room 2	CT Room 3	CT Room 4
10:35	Bini, Dario	Szyld, Daniel	Arav, Marina	Cravo, Glória
11:00	Fassbender, Heike	Morris, DeAnne	Pruneda, Rosa E.	Peña, Marta
11:25	Guo, Chun-Hua	Szyld, Daniel	Semrl, Peter	Roca, Alicia
11:50	Iannazzo, Bruno	Neumann, Michael	Glebsky, Lev	Carriegos, Miguel
12:15	Klein, Andre		Gassó, Maria T.	Ferrer, Josep

MS6 Matrix functions and matrix equations, Tuesday Morning, Room 1

- 10:35 Fast solution of a certain Riccati Equation through Cauchy-like matrices
  Bini, Dario, University of Pisa, Italy (with Beatrice Meini and Federico Poloni)

- 11:00 On the numerical solution of large-scale sparse discrete-time Riccati equations
  Fassbender, Heike, TU Braunschweig, Germany (with Peter Benner)

- 11:25 On Newton's method and Halley's method for p-th roots of matrices
  Guo, Chun-Hua, University of Regina, Canada

- 11:50 Matrix iterations for matrix functions
  Iannazzo, Bruno, Università dell'Insubria, Como, Italy

- 12:15 Tensor Sylvester matrices and information matrices of multiple stationary processes
  Klein, Andre, University of Amsterdam, The Netherlands

MS8 Nonnegative and eventually nonnegative matrices, Tuesday Morning, Room 2

- 10:35 On General Matrices Having the Perron-Frobenius Property
  Szyld, Daniel, Temple University, USA (with Elhashash, Abed)

- 11:00 Jordan forms corresponding to nonnegative and eventually nonnegative matrices
  Morris, DeAnne, Washington State University, USA (with McDonald, Judith)

- 11:25 Convergence of Stationary Iterative Methods for Hermitian Semidefinite Linear Systems
  Szyld, Daniel, Temple University, USA (with Frommer, Andreas and Nabben, Reinhard)

- 11:50 On Optimal Condition Numbers For Markov Chains
  Neumann, Michael, University of Connecticut, USA (with Sze, Nung-Sing and Kirkland, Stephen J.)

Contributed Talks, Tuesday Morning, Room 3

- Tue. 10:35 Sign Patterns That Require Almost Unique Rank
  Arav, Marina, Georgia State University, Atlanta, GA, USA (with Frank Hall, Zhongshan Li, Assefa Merid, Yubin Gao)
- Tue. 11:00 Complete Orthogonal Decomposition Compared with Direct Projection Methods
  Pruneda, Rosa E., University of Castilla-La Mancha, Ciudad Real, Spain (with Beatriz Lacruz)
- Tue. 11:25 Locally linearly dependent operators
  Semrl, Peter, University of Ljubljana, Ljubljana, Slovenia
- Tue. 11:50 On low rank perturbations of matrices
  Glebsky, Lev, Universidad Autónoma de San Luis Potosi, San Luis Potosi, México (with Luis Manuel Rivera)
- Tue. 12:15 The class of Inverse-Positive matrices with checkerboard pattern
  Gassó, Maria T., Inst. Mat. Mult. Universidad Politécnica Valencia, Valencia, Spain (with Manuel F. Abad, and Juan R. Torregrosa)

Contributed Talks, Tuesday Morning, Room 4

- Tue. 10:35 Controllability of Matrices with Prescribed Blocks
  Cravo, Glória, University of Madeira and CELC, Funchal, Portugal
- Tue. 11:00 Perturbations preserving conditioned invariant subspaces
  Peña, Marta, Universitat Politecnica de Catalunya, Barcelona, Spain (with A. Compta and J. Ferrer)
- Tue. 11:25 Pencils with Prescribed Constant Subpencils
  Roca, Alicia, Dpto. de Matemática Aplicada, Universidad Politécnica, Valencia, Spain (with F. C. Silva)
- Tue. 11:50 Reachability of regular switched linear systems
  Carriegos, Miguel, Universidad de León, León, Spain
- Tue. 12:15 Geometric structure of the equivalence classes of a controllable pair
  Ferrer, Josep, Universitat Politecnica de Catalunya, Barcelona, Spain (with A. Compta and M. Peña)

Parallel Session 4, Tuesday Afternoon

Time	MS4 Room 1	MS6 Room 2	MS7 Room 3	CT Room 4
16:55	Klasa-Bompoint, Jacqueline	Lancaster, Peter	Boimond, Jean-Louis	Russo, Maria Rosaria
17:20	Leon, Steven	Meini, Beatrice	Sergeev, Sergey	Bueno Cachadina, M. Isabel
17:45	Tanguay, Denis	Mena, Hermann	Merlet, Glenn	Frank, Martin
18:10	Martin, William	Zúñiga, Juan Carlos	Butkovic, Peter	Salam, Ahmed
18:35	Group discussion			Martínez, José-Javier

MS4 Linear Algebra Education, Tuesday Afternoon, Room 1

- 16:55 Few pedagogical scenarios in Linear Algebra with Cabri and Maple
  Klasa-Bompoint, Jacqueline, Dawson College, Canada
- 17:20 When MATLAB Gives "Wrong" Answers
  Leon, Steven, University of Massachusetts Dartmouth, USA
- 17:45 A fundamental paradox in learning algebra
  Tanguay, Denis, UQAM, Montreal, Canada (with Corriveau, Claudia)
- 18:10 Integrating learning theories and application-based modules in teaching linear algebra
  Martin, William, North Dakota State University (with S. Loch, L. Cooley, S. Dexter and D. Vidakovic)
- 18:35 **Group discussion**

MS6 Matrix functions and matrix equations, Tuesday Afternoon, Room 2

- 16:55 Linearization of Matrix Polynomials
  Lancaster, Peter, University of Calgary, Canada (with A. Amiraslani and R.W. Corless)
- 17:20 From algebraic Riccati equations to unilateral quadratic matrix equations: old and new algorithms
  Meini, Beatrice, University of Pisa, Italy (with Bini, Dario and Poloni, Federico)
- 17:45 Exponential Integrators for Solving Large-Scale Differential Riccati Equations
  Mena, Hermann, Escuela Politécnica Nacional, Quito, Ecuador (with Benner, Peter)
- 18:10 Matrix polynomials, rational matrices and linear systems: A review
  Zúñiga, Juan Carlos, University of Calgary, Canada (with Lancaster, Peter)

MS7 Max Algebra, Tuesday Afternoon, Room 3

- 16:55 On Steady State Controller in Min-Plus Algebra
  Boimond, Jean-Louis, University Angers, France (with S. Lahaye)
- 17:20 On Kleene stars and intersection of finitely generated semimodules
  Sergeev, Sergey, University of Birmingham, UK
- 17:45 Semi-group of matrices acting on the max-plus projective space
  Merlet, Glenn, LIAFA CNRS-Universite Paris-Diderot, France
- 18:10 On the permuted max-algebraic eigenvector problem
  Butkovic, Peter, University of Birmingham, UK

Contributed Talks, Tuesday Afternoon, Room 4

- Tue. 16:55 On some general determinantal identities of Sylvester type
  Russo, Maria Rosaria, Department of Mathematics - University of Padua, Padova, Italy (with Michela Redivo-Zaglia)
- Tue. 17:20 Algorithms for computing the Geronimus Transformation
  Bueno Cachadina, María Isabel, The University of California at Santa Barbara, Santa Barbara, USA
- Tue. 17:45 An iterative method for transport equations in radiotherapy
  Frank, Martin, University of Kaiserslautern, Kaiserslautern, Germany (with Bruno Dubroca)
- Tue. 18:10 A structure-preserving Arnoldi-like method for a class of structured matrices
  Salam, Ahmed, Université du Littoral-Côte d'Opale, Calais, France
- Tue. 18:35 Polynomial regression in the Bernstein basis
  Martínez, José-Javier, Universidad de Alcalá, Alcalá de Henares, Spain (with Ana Marco)

Parallel Session 5, Wednesday Morning

Time	MS1 Room 1	MS4 Room 2	MS7 Room 3	CT Room 4
10:35	Brualdi, Richard A.	Moura, Ana	Singer, Ivan	Uhlig, Frank
11:00	Hershkowitz, Danny	Zandieh, Michelle	Loiseau, Jean Jacques	Schaffrin, Burkhard
11:25	Kirkland, Steve	Possani, Edgar	Gavalec, Martin	Wu, Pei Yuan
11:50	Pryporova, Olga	Strong, David	Plavka, Jan	Protasov, Vladimir
12:15	Berman, Avi	Group discussion	Schneider, Hans	Seddighin, Morteza

MS1 Combinatorial Matrix Theory, Wednesday Morning, Room 1

- 10:35 A Conjecture in Combinatorial Matrix Theory
  Brualdi, Richard A., University of Wisconsin, Madison, USA
- 11:00 On nonnegative sign equivalent and sign similar factorizations of matrices
  Hershkowitz, Danny, Technion, Israel (with Allan Pinkus)
- 11:25 Constructing Laplacian Integral Split Graphs
  Kirkland, Steve, University of Regina, Canada (with N. Abreu, M. de Freitas and R. Del Vecchio)
- 11:50 Potential Diagonal and D-convergence
  Pryporova, Olga, Iowa State University, Ames, IA, USA
- 12:15 The Colin de Verdière Parameter- a progress report
  Berman, Avi, Technion, Tel Aviv, Israel

MS4 Linear Algebra Education, Wednesday Morning, Room 2

- 10:35 Skills, Concepts and Models in a Linear Algebra Course
  Moura, Ana, Instituto Superior Técnico, UTL, Lisbon, Portugal (with Santos, P. A.)
- 11:00 Design of a unit to teach eigenvectors and eigenvalues based on the instructional design principles of Realistic Mathematics Education
  Zandieh, Michelle, Arizona State University (with Rasmussen, C. and Larson, C.)
- 11:25 Use of models in the teaching of linear algebra
  Possani, Edgar, Instituto Tecnológico Autónomo de México (with Preciado, G. and Lozano, D.)
- 11:50 A Java Applet and Introductory Tutorial for the Jacobi, Gauss-Seidel and SOR Methods
  Strong, David, Pepperdine University, CA, USA
- 12:15 **Group discussion**

MS7 Max Algebra, Wednesday Morning, Room 3

- 10:35 Max-min convexity
  Singer, Ivan, Institute of Mathematics, Bucharest, Romania
- 11:00 Robust stability of positive difference equations
  Loiseau, Jean Jacques, University Nantes, France (with M. Di Loreto)
- 11:25 Permuted max-min eigenvector problem
  Gavalec, Martin, University of Hradec Kralove, Czech Republic (with J. Plavka)
- 11:50 On the robustness of matrices in max-min algebra
  Plavka, Jan, Technical University Kosice, Slovakia
- 12:15 Nonnegative linear algebra and max linear algebra: where's the difference?
  Schneider, Hans, University of Wisconsin, Madison, USA

Contributed Talks, Wednesday Morning, Room 4

- Wed. 10:35 Convex and Non-convex Optimization Problems for the Field of Values of a Matrix
  Uhlig, Frank, Mathematics, Auburn University, Auburn, AL 36849, USA
- Wed. 11:00 Total least-squares regularization of Tykhonov type and an ancient racetrack in Corinth
  Schaffrin, Burkhard, Ohio State University, Columbus, OH, USA (with Kyle Snow)
- Wed. 11:25 Numerical ranges of nilpotent operators
  Wu, Pei Yuan, National Chiao Tung University, Hsinchu, Taiwan (with Hwa-Long Gau)
- Wed. 11:50 p-radii of linear operators and equations of self-similarity
  Protasov, Vladimir, Moscow State University, Moscow, Russia
- Wed. 12:15 Matrix Optimization in Statistics
  Seddighin, Morteza, Indiana University East, Richmod, Indiana

Parallel Session 6, Thursday Morning

Time	MS1 Room 1	MS5 Room 2	CT Room 3	CT Room 4	CT Room 5
10:35	Barrett, Wayne	Gugercin, Serkan	Wrobel, Iwona	Sivic, Klemen	Körtesi, Peter
11:00	van der Holst, Hein	Van Dooren, Paul	Sánchez, Salvador	Marovt, Janko	Im, Bokhee
11:25	Grout, Jason	Beattie, Christopher	Furtado, Susana	Olshevsky, Vadim	Al Zhour, Zeyad
11:50	Shader, Bryan	Feng, Lihong	Sendov, Hristo	Palma, Alejandro	Sebeldin, Anatoly
12:15	Deaett, Louis	Freund, Roland	Fonseca, Carlos	Satô, Kenzi	Shahryari, Mohammad

MS1 Combinatorial Matrix Theory, Thursday Morning, Room 1

- 10:35 Minimum rank of edge subdivisions of complete graphs and wheels
  Barrett, Wayne, Brigham Young University, Utah (with Ryan Bowcutt, Mark Cutler, Seth Gibelyou, and Kayla Owens)

- 11:00 Computing the minimum rank of partial 2-trees
  van der Holst, Hein, Eindhoven University of Technology, The Netherlands

- 11:25 Characterizing graphs with minimum rank at most a given number over a finite field using polarities of projective geometries
  Grout, Jason, Iowa State University, Ames, IA, USA

- 11:50 Average minimum rank of a graph
  Shader, Bryan, University of Wyoming, USA (with Francesco Barioli, Shaun Fallat, Tracy Hall, Daniel Hershkowitz, Leslie Hogben, Ryan Martin, and Hein van der Holst)

- 12:15 The graph and rank of a positive semidefinite matrix
  Deaett, Louis, University of Wisconsin, Madison, USA

MS5 Linear Algebra in Model Reduction, Thursday Morning, Room 2

- 10:35 A Krylov-Based Descent Approach for the Optimal H2 Model Reduction of Large-Scale Dynamical Systems
  Gugercin, Serkan, Virginia Tech, Blacksburg, VA, USA

- 11:00 H2 Approximation and Tangential Rational Interpolation
  Van Dooren, Paul, Université Catholique Louvain-La-Neuve, Belgium

- 11:25 Interpolatory Projection Methods for Parameterized Model Reduction
  Beattie, Christopher, Virginia Tech, Blacksburg, VA, USA

- 11:50 Parametric Model Reduction for Systems with Coupled Parameters
  Feng, Lihong, Chemnitz University of Technology, Germany/Fudan University Shanghai, China

- 12:15 The Effects of Deflation in Projection-Based Order Reduction
  Freund, Roland, University of California, Davis, USA

Contributed Talks, Thursday Morning, Room 3

- Thu. 10:35 The Gauss-Lucas theorem and the numerical range
  Wrobel, Iwona, Warsaw University of Technology and Polish Academy of Sciences, Warsaw, Poland
- Thu. 11:00 Manifold of proper elements
  Sánchez Perales, Salvador, Benemérita Universidad Autónoma de Puebla, Puebla, México (with S. Djordjevic)
- Thu. 11:25 Order Invariant Spectral Properties for Several Matrices
  Furtado, Susana, Centro de Estruturas Lineares e Combinatórias da U. L, Porto, Portugal (with Charles Johnson)
- Thu. 11:50 Spectral Manifolds
  Sendov, Hristo, The University of Western Ontario, London, Canada (with A. Daniilidis, J. Malick, and A. Lewis)
- Thu. 12:15 An inequality for the multiplicity of an eigenvalue
  Fonseca, Carlos, Department of Mathematics, University of Coimbra, Coimbra, Portugal

Contributed Talks, Thursday Morning, Room 4

- Thu. 10:35 On varieties of commuting triples
  Sivic, Klemen, Institute of Mathematics, Physics and Mechanics, Ljubljana, Slovenia
- Thu. 11:00 Homomorphisms of matrix semigroups over division rings from dimension two to three
  Marovt, Janko, Institute of Mathematics, Physics and Mechanics, Ljubljana, Slovenia (with Gregor Dolinar)
- Thu. 11:25 Can One Invert a Matrix via Graph Manipulations?
  Olshevsky, Vadim, University of Connecticut, Storrs, USA (with Tom Bella and Pavel Zhlobich)
- Thu. 11:50 Solution of the linear time-dependent potential by using a solvable Lie algebra*
  Palma, Alejandro, Instituto de Física (BUAP), Puebla, México (with M. Villa, and L. Sandoval)
- Thu. 12:15 The algebraic relations of curvatures of PL manifolds
  Satô, Kenzi, Tamagawa University, Tokyo, Japan

Contributed Talks, Thursday Morning, Room 5

- Thu. 10:35 Using Linear Algebra in Teaching Hamilton Quaternions and Graphs
  Kortesi, Peter, University of Miskolc, Miskolc, Hungary

- Thu. 11:00 Representations of trilinear products in Comtrans algebras
  Im, Bokhee, Chonnam National University, Gwangju, Korea(Rep. of) (with Jonathan D. H. Smith)

- Thu. 11:25 Matrix Results on Weighted Drazin Inverse and Some Applications
  Al Zhour, Zeyad, Zarqa Private University, Zarqa, Jordan (with Adem Kilicman)

- Thu. 11:50 Algorithm resolving problem of determination of finite cyclicgroup by its automorphism group
  Sebeldin, Anatoly, University UGANC, Guinea, Conakry, Guinea (with V. K. Vildanov and A. L. Sylla)

- Thu. 12:15 Z_2-graded symmetry classes of tensors
  Shahryari, Mohammad, Tabriz University, Tabriz, Iran, Tabriz, Iran

Parallel Session 7, Thursday Afternoon

Time	MS2 Room 1	MS3 Room 2	CT Room 3	CT Room 4	CT Room 5
16:55	Dhillon, Inderjit	Rust, Bert W.	Day, Jane	Marques, Maria-da-Graça	Prokip, Volodymyr
17:20	Cox, Steve	Bardsley, John	Mikkelson, Rana	Dolinar, Gregor	Rakotondrajao, Fanja
17:45	Meerbergen, Karl	Nagy, James	Perdigão, Cecília	Ahn, Eunkyung	
18:10	Plestenjak, Bor	Hnetynková, Iveta	Mitchell, Lon	da Cruz, Henrique F	
18:35		Renaut, Rosemary A	Sinkovic, John	Lee, Gue Myung	

MS2 Eigenproblems: Theory and computation, Thursday Afternoon, Room 1

- 16:55 On some modified root-finding problems
  Dhillon, Inderjit, University of Texas, Austin, TX, USA (with Matyas Sustik)

- 17:20 Eigen-reduction of Large Scale Neuronal Networks
  Cox, Steve, Rice University, Houston TX, USA (with Tony Kellems, Derrick Roos and Nan Xiao)

- 17:45 Recycling Ritz vectors in the parameterized Lanczos method
  Meerbergen, Karl, Katholieke Universiteit Leuven, Belgium (with Zhaojun Bai)

- 18:10 Numerical methods for two-parameter eigenvalue problems
  Plestenjak, Bor, University of Ljubljana, Slovenia

MS3 Implementation and Application issues in regularizing least squares, Thursday Afternoon, Room 2

- 16:55 A Truncated Singular Component Method for Ill-Posed Problems
  Rust, Bert W., NIST, USA (with Dianne P. O'Leary, University of Maryland)

- 17:20 Truncation Rules for Iterative Deblurring Methods
  Bardsley, John, University of Montana, USA

- 17:45 Lanczos Hybrid Regularization for Image Processing Applications
  Nagy, James, Emory University, Atlanta GA, USA

- 18:10 On solvability of total least squares problem
  Hnetynková, Iveta, Charles University in Prague, and Institute of Computer Science, Academy of Sciences, Czech Republic.

- 18:35 A Newton Iteration for estimating the regularizing parameter for least squares
  Renaut, Rosemary A., Arizona State University, Phoenix, USA (with Jodi Mead, Boise State University)

Contributed Talks, Thursday Afternoon, Room 3

- Thu. 16:55 Graph Energy Change Due to Edge Deletion
  Day, Jane, San Jose State University, San Jose, CA, USA
- Thu. 17:20 Minimum Rank of Graphs with Loops
  Mikkelson, Rana, Iowa State University, Ames, IA, United States of America
- Thu. 17:45 On the equivalence class graph
  Perdigão, Cecília, Faculdade de Ciências e Tecnologia-UNL, Lisboa, Portugal (with Rosário Fernandes)
- Thu. 18:10 Orthogonal Removal of Vertices and Minimum Semidefinite Rank
  Mitchell, Lon, Virginia Commonwealth University, Richmond, United States (with Sivaram Narayan)
- Thu. 18:35 An upper bound for the maximum nullity of a symmetric matrix whose graph is outerplanar
  Sinkovic, John, Technische Universiteit Eindhoven, Eindhoven, Netherlands

Contributed Talks, Thursday Afternoon, Room 4

- Thu. 16:55 Some conditions for the commutativity of matrix patterns
  Marques, Maria-da-Graça, University of Algarve and CELC, Faro, Portugal (with C. R. Johnson)
- Thu. 17:20 General preservers of quasi-commutativity
  Dolinar, Gregor, Faculty of Electrical Engineering, Ljubljana, Slovenia (with Bojan Kuzma)
- Thu. 17:45 An extended Lie-Trotter formula and its applications
  Ahn, Eunkyung, Kyungpook National University, Daegu, Korea (with Sejong Kim and Yongdo Lim)
- Thu. 18:10 On the matrices that preserve the value of the immanant of the upper triangular matrices
  da Cruz, Henrique F., U.B.I, Covilhã, Portugal (with Rosário Fernandes)
- Thu. 18:35 Complexity Analysis of the Primal-Dual Interior Point Method for Second-order Cone Optimization Problem
  Lee, Gue Myung, Pukyong National University, Busan, Korea (with Bo Kyung Choi)

Contributed Talks, Thursday Afternoon, Room 5

- Thu. 16:55 On the problem of diagonalizability of matrices over a principal ideal domain
  Prokip, Volodymyr, Institute of Appl. Problem for Mech. and Math. NAS of Ukr, L'viv, Ukraine
- Thu. 17:20 Euler's difference table and maximum permanents of $(0, 1)$-matrices
  Rakotondrajao, Fanja, University of Antananarivo, Antananarivo, Madagascar

Parallel Session 8, Friday Morning

Time	MS2 Room 1	MS3 Room 2	CT Room 3	CT Room 4
10:35	Olshevsky, Vadim	Estatico, Claudio	Andjelic, Milica	Dopazo, Esther
11:00	Bella, Tom	Aricò, Antonio	Martins, Enide	Bengochea, Gabriel
11:25	Li, Chi-Kwong	Stefan, Wolfgang	Schaeffer, Elisa	Castro-González, Nieves
11:50	Karow, Michael	Mead, Jodi	Rodríguez, Juan Alberto	Patricio, Pedro
12:15	Moro, Julio		Narayan, Sivaram	Verde-Star, Luis

MS2 Eigenproblems: Theory and computation, Friday Morning, Room 1

- 10:35 Lipschitz stability of canonical Jordan bases of H-selfadjoint matrices
  Olshevsky, Vadim, University of Connecticut, Storrs, CT, USA (with Tom Bella and Upendra Prasad)

- 11:00 Eigenproblems for quasiseparable matrices
  Bella, Tom, University of Connecticut, Storrs, CT, USA (with Yuli Eidelman, Israel Gohberg and Vadim Olshevsky)

- 11:25 Eigenvalues of the sum of matrices from unitary similarity orbits
  Li, Chi-Kwong, College of William and Mary, Williamsburg, VA, USA (with Yiu-Tung poon and Nung-Sing Sze)

- 11:50 Pseudospectra and Stability radii for Hamiltonian Matrices
  Karow, Michael, Technische Universitat Berlin, Germany

- 12:15 Structured Holder condition numbers for eigenvalues under fully nongeneric perturbations
  Moro, Julio, Universidad Carlos III de Madrid, Spain (with María J. Peláez)

MS3 Implementation and Application issues in regularizing least squares, Friday Morning, Room 2

- 10:35 Block splitting least square regularization for structured matrices arising in nonlinear microwave imaging
  Estatico, Claudio, University of Cagliari, Italy

- 11:00 Signal and Image regularization via antireflective transform
  Aricò, Antonio, Università degli studi di Cagliari, Italy

- 11:25 Regularizing Least Squares with the Concentration Method
  Stefan, Wolfgang, Arizona State University (with Rosemary Renaut and Anne Gelb)

- 11:50 Calculating Weights in Least Squares Estimation Using the Chi-squared Method
  Mead, Jodi, Boise State University, Idaho (with Rosemary Renaut, ASU)

Contributed Talks, Friday Morning, Room 3

- Fri. 10:35 One upper bound for the largest eigenvalue of the signless Laplacian
  Andjelic, Milica, Center for Research on Optimization and Control, Aveiro, Portugal (with Slobodan Simic)
- Fri. 11:00 On the spectra of some graphs like weighted rooted trees
  Martins, Enide, Centre for Research on Optimization and Control (CEOC), Aveiro, Portugal (with Rosário Fernandes and Helena Gomes)
- Fri. 11:25 Locally computable approximations of absorption times for graph clustering
  Schaeffer, Elisa, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, México (with Pekka Orponen and Vanesa Avalos)
- Fri. 11:50 The Laplacian Spectrum of Hypergraphs
  Rodríguez, Juan Alberto, Universitat Rovira i Virgili, Tarragona, España (with Aida Kamisalic)
- Fri. 12:15 Linearly Independent Vertices and Minimum Semidefinite Rank
  Narayan, Sivaram, Central Michigan University, Mount Pleasant, Michigan 48859, USA

Contributed Talks, Friday Morning, Room 4

- Fri. 10:35 Further results on the representation of the Drazin inverse of a 2×2 block matrix
  Dopazo, Esther, Facultad de Informática. Universidad Politécnica de Madrid, Boadilla del Monte, Madrid, Spain (with M. F. Martínez-Serrano and N. Castro-González)
- Fri. 11:00 Duality in the Hopf Algebra of multivariate polynomials
  Bengochea, Gabriel, Universidad Autónoma de la Ciudad de México, México D.F. (with L. Verde-Star)
- Fri. 11:25 Representations for the generalized Drazin inverse of additive perturbations
  Castro-González, Nieves, Universidad Politécnica de Madrid, Madrid, Spain (with M. F. Martínez-Serrano)
- Fri. 11:50 Some additive results on Drazin Inverses
  Patricio, Pedro, Departamento de Matemática, Universidade do Minho, Braga, Portugal (with R. E. Hartwig)
- Fri. 12:15 Linear algebraic approach to rational functions
  Verde-Star, Luis, UAM Iztapalapa, México DF, México

Parallel Session 9, Friday Afternoon

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15:30	Olesky, Dale	Baur, Ulrike	Cortés, Vanesa	Guzmán, José Ramón
15:55	Vander Meulen, Kevin	Damm, Tobias	Teixeira Matos, Isabel	Milligan, Thomas
16:20	DeAlba, Luz	Benner, Peter	Goldberger, Assaf	Barría, José
16:45	Tam, Bit-Shun		Wojciechowski, Piotr	Cheng, Wei
17:10			Esen, Özlem	

MS1 Combinatorial Matrix Theory, Friday Afternoon, Room 1

- 15:30 Group Inverses of Matrices with Path Graphs
  Olesky, Dale, University of Victoria, Canada (with M. Catral and P. van den Driessche)
- 15:55 Sparse Inertially Arbitrary Sign Patterns
  Vander Meulen, Kevin, Redeemer College, Canada (with L. Vanderspek and M. Cavers)
- 16:20 The Q-matrix completion problem
  DeAlba, Luz, Drake University, Des Moines, IA, USA (with Leslie Hogben and Bhaba Sharma)
- 16:45 Maximizing spectral radius of unoriented Laplacian matrix,
  Tam, Bit-Shun, Tamkang University, Tamsui, Taiwan (with Ding-Jung Chang and Shui-Hei Wu)

MS5 Linear Algebra in Model Reduction, Friday Afternoon, Room 2

- 15:30 Model Reduction for unstable Systems based on Hierarchical Matrix Arithmetic
  Baur, Ulrike, Chemnitz University of Technology, Germany
- 15:55 Algebraic Gramians and Model Reduction for Different System Classes
  Damm, Tobias, TU Kaiserslautern, Germany
- 16:20 Balancing-Related Model Reduction for Large-Scale Unstable Systems
  Benner, Peter, Chemnitz University of Technology, Germany

Contributed Talks, Friday Afternoon, Room 3

- Fri. 15:30 Some properties of the class sign regular matrices and its subclasses
  Cortés, Vanesa, Universidad de Zaragoza, Zaragoza, Spain (with J. M. Peña)

- Fri. 15:55 A Completion Problem over the Field of Real Numbers
  Teixeira Matos, Isabel, Centro de Estruturas Lineares e Combinatórias (CELC), Lisboa, Portugal (with Fernando C. Silva)

- Fri. 16:20 An upper bound on the characteristic polynomial of a nonnegative matrix leading to a proof of the Boyle–Handleman conjecture
  Goldberger, Assaf, Tel Aviv University, Tel Aviv, Israel (with Michael Neumann)

- Fri. 16:45 Orderings of matrix algebras and their applications
  Wojciechowski, Piotr, University of Texas at El Paso, El Paso, USA

- Fri. 17:10 On The Root Clustering of Matrices
  Esen, Özlem, Anadolu University, Eskisehir, Turkey

Contributed Talks, Friday Afternoon, Room 4

- Fri. 15:30 Reduction of an Ito's diffusion input output model for the determination of square mean stability
  Guzmán, José Ramón, Instituto de Investigaciones Económicas. UNAM., México, México

- Fri. 15:55 On Euclidean Squared Distance Matrices
  Milligan, Thomas, University of Central Oklahoma, Edmond, OK, USA (with Chi-Kwong Li and Michael Trossett)

- Fri. 16:20 The strong closure of the similarity orbit for a class of pairs of finite rank operators
  Barría, José, Santa Clara University, Santa Clara, U.S.A.

- Fri. 17:10 One Type of Inverse Eigenvalue Problems in Quaternionic Quantum Mechanics
  Cheng, Wei, National University of Defense Technology, Changsha, P.R. China (with Liang-gui Feng)

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