

**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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**Rectoría de la UAM-Iztapalapa**

**División de Ciencias Básicas e Ingeniería, UAM-Iztapalapa**

**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	12:40–13:30	12:40–14:00 Lunch break	12:40–15:30 Lunch break
12:50–15:30	Lunch break	Lunch break	14:00 ILAS Business Meeting	15:30
Lunch break	15:30 F. M. Dopico	13:30–19:00	15:30 L. Gemignani	15:55
15:30 A. Boettcher	16:25 Coffee break	Excursion to Tulum	16:25 Coffee break	16:20
16:25 Coffee break	16:55		16:55	16:45
16:55	17:20		17:20	17:10
17:20	17:45		17:45	17:35 Closing Ceremony
17:45	18:10		18:10	
18:10	18:35		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	8:10–9:05 IPL	8:10–9:05 IPL	8:10–9:05 IPL
8:20–9:15 IPL L. Hogben	N. Shaked-Monderer	J. M. Peña	H. Fassbender	P. Rosenthal
9:15–9:20 Mini-break	9:05–9:10 Mini-break	9:05–9:10 Mini-break	9:05–9:10 Mini-break	9:05–9:10 Mini-break
9:20–10:15 IPL E. Jiang	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
10:15–10:45 Coffee break	10:05–10:35 Coffee break	10:05–10:35 Coffee break	10:05–10:35 Coffee break	10:05–10:35 Coffee break
10:45–12:50 Parallel session 1 5 talks of 25min MS4, MS7, CT	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
12:50–15:30 Lunch break	12:40–15:30 Lunch break	12:40–13:30 Lunch break	12:40–14:00 Lunch break	12:40–15:30 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)

## 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
- 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	Körtési, 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  
**Mikkelsen, 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  $2 \times 2$  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

Time	MS1 Room 1	MS5 Room 2	CT Room 3	CT Room 4
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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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**Russo, Maria Rosaria:** CT, Tue. 16:55, Room 4  
**Rust, Bert W.:** MS3, Thu. 16:55, Room 2  
**Salam, Ahmed:** CT, Tue. 18:10, Room 4  
**Sánchez Perales, Salvador:** CT, Thu. 11:00, Room 3  
**Satô, Kenzi:** CT, Thu. 12:15, Room 4  
**Schaeffer, Elisa:** CT, Fri. 11:25, Room 3  
**Schaffrin, Burkhard:** CT, Wed. 11:00, Room 4  
**Schneider, Hans:** MS7, Wed. 12:15, Room 3  
**Sebeldin, Anatoly:** CT, Thu. 11:50, Room 5  
**Seddighin, Morteza:** CT, Wed. 12:15, Room 4  
**Semrl, Peter:** CT, Tue. 11:25, Room 3  
**Sendov, Hristo:** CT, Thu. 11:50, Room 3  
**Sergeev, Sergey:** MS7, Tue. 17:20, Room 3  
**Shader, Bryan:** MS1, Thu. 11:50, Room 1  
**Shahryari, Mohammad:** CT, Thu. 12:15, Room 5  
**Shaked-Monderer, Naomi:** Plenary, Tu. 8:10–9:05  
**Singer, Ivan:** MS7, Wed. 10:35, Room 3  
**Sinkovic, John:** CT, Thu. 18:35, Room 3  
**Sivic, Klemen:** CT, Thu. 10:35, Room 4  
**Šmigoc, Helena:** MS8, Mon. 17:20, Room 1

**Soares, Graça:** CT, Mon. 17:45, Room 4  
**Spitkovsky, Ilya:** Plenary, Fri. 9:10–10:05  
**Stefan, Wolfgang:** MS3, Fri. 11:25, Room 2  
**Stosic, Marko:** CT, Mon. 12:25, Room 3  
**Strong, David:** MS4, Wed. 11:50, Room 2  
**Stuart, Jeffrey:** CT, Mon. 11:35, Room 4  
**Szyld, Daniel:** MS8, Tue. 10:35, Tue. 11:25, Room 2  
**Tam, Bit-Shun:** MS1, Fri. 16:45, Room 1  
**Tanguay, Denis:** MS4, Tue. 17:45, Room 1  
**Teixeira Matos, Isabel:** CT, Fri. 15:55, Room 3  
**Trigueros, María:** MS4, Mon. 12:25, Room 1  
**Uchiyama, Mitsuru:** CT, Mon. 18:10, Room 4  
**Uhlig, Frank:** CT, Wed. 10:35, Room 4  
**Vallejo, Ernesto:** CT, Mon. 12:25, Room 4  
**van den Driessche, Pauline:** MS7, Mon. 11:10, Room 2  
**van der Holst, Hein:** MS1, Thu. 11:00, Room 1  
**Vander Meulen, Kevin:** MS1, Fri. 15:55, Room 1  
**Van Dooren, Paul:** Plenary, Thu. 9:10–10:05;  
MS5, Thu. 11:00, Room 2  
**Vargas, Xaab Nop:** CT, Mon. 17:45, Room 2  
**Verde-Star, Luis:** CT, Fri. 12:15, Room 4  
**Vieira, Luis:** CT, Mon. 18:35, Room 2  
**Weaver, James:** CT, Mon. 12:00, Room 4  
**Wojciechowski, Piotr:** CT, Fri. 16:45, Room 3  
**Wrobel, Iwona:** CT, Thu. 10:35, Room 3  
**Wu, Pei Yuan:** CT, Wed. 11:25, Room 4  
**Zandieh, Michelle:** MS4, Wed. 11:00, Room 2  
**Zimmermann, Karel:** MS7, Mon. 12:00, Room 2  
**Zúñiga, Juan Carlos:** MS6, Tue. 18:10, Room 2