

PROGRAM

Workshop on Matrices & Operators, with Abraham Berman

June 3-4, 2014

Department of Mathematics

University of Coimbra

Portugal

Sponsored by:

Compete (Programa operacional factores de competitividade)

CMUC - Centre for Mathematics, University of Coimbra

CELC - Centro de Estruturas Lineares e Combinatórias, University of Lisbon

Department of Mathematics, University of Coimbra

Tuesday - June 3, 2014

Room 2.4

09.30 – 10.00 Registration

10.00 – 10.15 Opening Ceremony

Chair: Natália Bebiano

10.15 – 11.00 *Completely Positive Matrices and Optimization*
Abraham Berman, Technion - Israel Institute of Technology, Israel

11.00 – 11.30 Coffee Break

Chair: Alexander Kovačec

11.30 – 12.00 *Star sets, star complements and graphs with convex-qp stability number*
Domingos Cardoso, University of Aveiro, Portugal

12.00 – 12.30 *Upper bounds on the magnitude of solutions of certain linear systems*
Pedro Freitas, University of Lisbon, Portugal

12.30 – 14.30 Lunch

Chair: Domingos Cardoso

14.30 – 15.00 *Infimum of two projections*
Celeste Gouveia, University of Coimbra, Portugal

15.00 – 15.30 *Lexicographical combinatorial generation and Gray codes for noncrossing and nonnesting set partitions of types A and B*
Ricardo Mamede, University of Coimbra, Portugal

15.30 – 16.00 *An extension of a Fiedler's lemma and its application on graph energy*
Enide Martins, University of Aveiro, Portugal

16.00 – 16.30 Coffee Break

Chair: Rute Lemos

16.30 – 17.00 *Coupled cell networks: mixing digraphs, matrices and dynamics*
Célia Moreira, University of Porto, Portugal

17.00 – 17.30 *Independent sets for irreducible characters of S_n*
Carlos Gamas, University of Coimbra, Portugal

17.30 – 18.00 *Higher order derivatives and norms of certain matrix functions*
Sónia Carvalho, University of Lisbon, Portugal

19.30 Conference Dinner

Wednesday - June 4, 2014

Room 2.4

Chair: Susana Furtado

09.30 – 10.00 *Orthogonal polynomials, tridiagonal matrices, and spectral theory of Jacobi operators*

José Carlos Petronilho, University of Coimbra, Portugal

10.00 – 10.30 *Sets of Parter Vertices which are Parter Sets*

Henrique F. da Cruz, University of Beira Interior, Portugal

10.30 – 11.00 *On Milne and Ostrowski Inequalities of Aczél type*

Rute Lemos, University of Aveiro, Portugal

11.00 – 11.30 Coffee Break

Chair: Ana Nata

11.30 – 12.00 *The group inverse of a 2×2 block matrix*

Pedro Patrício, University of Minho, Portugal

12.00 – 12.30 *Block-symmetric Fiedler pencils with repetition and strong linearizations of matrix polynomials*

Susana Furtado, University of Porto, Portugal

12.30 – 14.30 Lunch

Chair: Graça Soares

14.30 – 15.00 *2 by 2 matrices and formal degree for L-parameters of SL_2 over a local function field*

Sérgio Mendes, ISCTE-IUL, Portugal

15.00 – 15.30 *Zero in the closure of the numerical range*

Cristina Diogo, Instituto Universitário de Lisboa, Portugal

15.30 – 16.00 *One sided invertibility of matrices and Toeplitz operators*

M. Cristina Câmara, University of Lisbon, Portugal

16.00 – 16.30 Coffee Break

Chair: Celeste Gouveia

16.30 – 17.00 *Numerical ranges and compressions*

Ana Nata, Polytechnic Institute of Tomar, Portugal

17:00 – 17.30 *On the inverse field of values problem*

Nátalia Bebiano, University of Coimbra, Portugal

17.30 – 18.00 *The 123 theorem of probability theory and copositive matrices*

Alexander Kovačec, University of Coimbra, Portugal

18.00 – 18.20 Closing Ceremony