

# MatTriad 2009 - Preliminary Program

**Monday, 23.03.2009**

## **Session I**

9:00 – 9:05 – *Opening*

9:05 – 9:50 – J. M. Peña: *Numerical methods adapted to some classes of matrices related to positivity*

9:50 – 10:20 – A. Aretaki: *The numerical range of non square matrices*

10:20 – 10:40 – Coffee Break

## **Session II**

10:40 – 11:10 – I. Gimenez: *Schur complements in H-matrices classes*

11:10 – 11:40 – B. Laszkiewicz: *A Padé family of iterations for the matrix sector function*

11:40 – 12:00 – Coffee Break

**12:00 – 13:00 – Course IA: C.R. Johnson: *Special classes of matrices: positivity***

13:00 – 15:00 – Lunch

**15:00 – 16:00 – Course IB: C.R. Johnson: *Special classes of matrices: positivity***

16:00 – 16:20 – Coffee Break

## **Session III**

16:20 – 17:05 – M. Fonseca: *Extension of models with orthogonal block structure*

17:05 – 17:35 – F. Carvalho: *Inference in models with COBS: strictly associated models and models with cross nesting*

17:35 – 17:55 – Coffee Break

## **Session IV**

17:55 – 18:25 – A. Sawikowska: *Graphs with minimum eigenvalue for the number of vertices and edges*

18:25 – 18:55 – K. Filipiak: *Connectedness of complete block designs under an interference model*

19:00 – Dinner

**Tuesday, 24.03.2009**

**Session V**

9:00 – 9:45 – V. Kostić: *Geršgorin-type localizations of generalized eigenvalues*

9:45 – 10:15 – W. Tadej: *Affine Hadamard families stemming from Fourier matrices*

10:15 – 10:35 – Coffee Break

**Session VI**

10:35 – 11:05 – A. Suchocka: *Extrapolated alternating projection methods*

11:05 – 11:35 – I. Kurzydło: *The matrix negative Pell equation and the application of some spectral properties of matrices to number theory*

11:35 – 12:00 – Coffee Break

**12:00 – 13:00 – Course IC: C.R. Johnson: *Special classes of matrices: positivity***

13:00 – 15:00 – Lunch

**15:00 – 16:00 – Course ID: C.R. Johnson: *Special classes of matrices: positivity***

16:00 – 16:15 – Coffee Break

**Session VII**

16:15 – 17:00 – M. Gouveia: *H-Polynomials: an application to Toeplitz pencils*

17:00 – 17:15 – Coffee Break

**Session VIII**

17:15 – 18:00 – N. Bebiano: *An application of Morse theory to Krein space numerical ranges*

18:00 – 18:30 – T. Ostrowski: *On semidirect sum of Lie algebras*

**18:30 – 19:00 – Poster Session**

19:00 – Dinner

**Wednesday, 25.03.2009**

**Session IX**

9:00 – 9:45 – C. R. Johnson: *Gangster operators and invincible positive definite matrices*

9:45 – 10:15 – K. Ziętak: *Numerical matrix inversion*

10:15 – 10:35 – Coffee Break

**Session X**

10:35 – 11:20 – S. E. Ahmed: *Inference concerning multiple multivariate econometric models*

11:20 – 11:40 – Coffee Break

**Session XI**

11:40 – 12:25 – R. B. Bapat: *Least-squares approximation by a tree distance*

12:25 – 12:55 – H. Naseri: *New definition of empirical Bayes estimation with symmetric alpha stable (SaS) distribution approach*

13:00 – 14:00 – Lunch

**14:00 – EXCURSION**

19:00 – Dinner

**Thursday, 26.03.2009**

**Session XII**

9:00 – 9:45 – J. T. Mexia: *Boole algebras of commutative Jordan algebras. Applications to mixed models*

9:45 – 10:15 – R. Covas: *L Models and Multiple Regression Designs*

10:15 – 10:35 – Coffee Break

**Session XIII**

10:35 – 11:20 – A. Roy: *Linear discrimination for three-level multivariate data with structured mean vectors and doubly exchangeable covariance structure*

11:20 – 11:45 – Coffee Break

**11:45 – 12:45 – Course IIA:** **A. Cegielski:** *Iterative methods for large scale linear feasibility problems*

13:00 – 15:00 – Lunch

**15:00 – 16:00 – Course IIB:** **A. Cegielski:** *Iterative methods for large scale linear feasibility problems*

16:00 – 16:20 – Coffee Break

**Session XIV**

16:20 – 17:05 – D. von Rosen: *On MLEs in a multivariate linear model*

17:05 – 17:35 – S. Puntanen: *Equality of BLUEs and/or BLUPs under two linear models using stochastic restrictions*

17:35 – 17:55 – Coffee Break

**Session XV**

17:55 – 18:25 – H. Drygas: *Least Squares and Gauss-Markov estimation*

18:25 – 18:55 – P. Pordzik: *Orthogonality and linear sufficiency in partitioned and reduced linear models*

20:00 – Conference Dinner

## Friday, 27.03.2009

### Session XVI

9:00 – 9:45 – D. Kubalińska: *Interpolation-based model reduction*

9:45 – 10:30 – I. Wróbel: *Numerical ranges - theory and applications*

10:30 – 10:50 – Coffee Break

### Session XVII

10:50 – 11:35 – L. Cvetković: *A simple generalization of Geršgorin theorem*

11:35 – 12:00 – Coffee Break

**12:00 – 13:00 – Course IIC:**    **A. Cegielski:** *Iterative methods for large scale linear feasibility problems*

13:00 – 15:00 – Lunch

**15:00 – 16:00 – Course IID:**    **A. Cegielski:** *Iterative methods for large scale linear feasibility problems*

16:00 – 16:20 – Coffee Break

### Session XVIII

16:20 – 17:05 – A. Roca: *Singular pencils with prescribed constant subpencils over arbitrary fields*

17:05 – 17:35 – A. Markiewicz: *Admissible and linearly sufficient estimation in reduced linear model*

17:35 – 17:55 – Coffee Break

### Session XIX

17:55 – 18:25 – T. Kossowski: *Spatial versus non-spatial regression models -- comparison on examples*

18:25 – 18:55 – J. Hauke: *Matrix completion preserving matrix partial orderings*

18:55 – *Closing*

19:00 – Dinner