

Thursday, September 22nd, 2011

10:20

Opening

10:30 – 11:30

Paul van Dooren
Updating indefinite matrix approximations
H2

11:30 – 12:00

Jens Saak
A Goal Oriented Low Rank Dual ADI
Iteration for Balanced Truncation

H2

Andreas Frommer
Error bounds for the sign function

H3

12:00 – 12:30

Patrick Kürschner
Efficient Handling of Complex Shift
Parameters in the Low-rank Cholesky factor
ADI method

H2

Izchak Lewkowicz
Approximated Nevanlinna-Pick interpolation and the
matrix sign function

H3

Lunch break

14:00 – 15:00

Caroline Böß
Model order reduction for discrete unstable systems
H2

15:00 – 15:30	Georg Vossen Error analysis for $H_{2,\alpha}$ -norm optimal model reduction in optimal control problems	H2	Nemanja Bozovic Recycling Krylov subspace information in sequences of linear systems	H3
15:30 – 16:00	Alexander Litvinenko Low-rank direct Bayesian update of polynomial chaos coefficients	H2	Matthias Rottmann Aggregation-based Multilevel Methods for Lattice QCD	H3
Coffee break & Informal Discussion				
16:30 – 17:00	Thomas Wolf Krylov subspace and Sylvester equations	H2	Volker Mehrmann Regularization of descriptor systems	H3
17:00 – 17:30	Heiko Panzer Iterative factorization of the error system in Moment Matching and applications to error bounds	H2	Heinrich Voss Large-Scale Tikhonov Regularization of Total Least Squares Problems	H3
17:30 – 18:00	Tobias Breiten Two-sided Krylov subspace methods for nonlinear model reduction	H2	Thomas Mach Computing Inner Eigenvalues of Matrices in Tensor Train Format	H3
19:00 Conference dinner				

Friday, September 23nd, 2011

09:30 – 10:30	Athanasios C. Antoulas Parametric model reduction H 2			
Coffee break & Informal Discussion				
11:00 – 11:30	Thanh Son Nguyen Model reduction for parameter dependent systems with Grassmann manifold interpolation	H 2	Philipp Birken Preconditioning DG: ROBO-SGS	H 3
11:30 – 12:00	Martin Grepl Reduced basis a posteriori error bounds for linear-quadratic elliptic optimal control problems	H 2	Karsten Kahl Algebraic Multigrid Coarsening by Algebraic Distances and Compatible Relaxation	H 3
12:00 – 12:30	André Schneider Balanced Truncation for Descriptor Systems with many Terminals	H 2	Sebastian Birk A deflated conjugate gradient method for multiple right hand sides an multiple shifts	H 3
12:30 – 13:00	Ralf Zimmermann On Efficiently Updating Singular Value Decomposition Based Reduced Order Models	H 2	Seiji Fujino A proposal of GPBiCGSafe method without reverse recurrence and its estimation	H 3
13:00	Closing			

