SC2011 - International Conference on Scientific Computing October 10–14, 2011 S. Margherita di Pula (Cagliari), Italy

Legenda (see list of Abstracts)

Special Sessions

SN.M means the M-th talk of the Special Session SN

S1	Approximation Theory	organized by Giuseppe Mastroianni and Wiesław Pleśniak
S2	Extrapolation and Convergence Acceleration	organized by Claude Brezinski and Ernst Joachim Weniger
S3	Inverse Problems and Regularization	organized by Martin Hanke and Per Christian Hansen
S4	Iterative Methods for Linear Systems	organized by Zhong-Zhi Bai and Hassane Sadok
S5	Nonlinear Evolution Equations	organized by Tuncay Aktosun and Sebastiano Seatzu
$\mathbf{S6}$	Optimization and Management Science	organized by Marcos Raydan and Paola Zuddas
S7	Orthogonal Polynomials and Quadrature	organized by Adhemar Bultheel and Walter Gautschi
$\mathbf{S8}$	Padé Approximation and Continued Fractions	organized by Bernd Beckermann and Annie Cuyt
$\mathbf{S9}$	Partial Differential Equations	organized by Carsten Carstensen and Alfio Quarteroni
S10	Structured Linear Algebra	organized by Dario Bini and Marc Van Barel
S11	History of Computational Mathematics	organized by Michela Redivo-Zaglia and Giuseppe Rodriguez

General Session

GM means the M-th talk of the General Session



Monday 10th October

8:45-9:30	Opening			
Chair:	Nautilus: O. Pironneau			
9:30-10:30	P.G. Ciarlet			
	Shell models: old and new			
Chair	Nautilus: S4	Cyprea: S5	Alvania: S7	Opalia: J.M. Martinez
10:30-11:00	M.H. Gutknecht S4.2	A. Degasperis S5.2	F. Marcellán S7.4	J.C. Trillo G63
	Deflation based preconditioning of linear	Integrability and solvability of nonlocal	N-coherent pairs of measures	Comparison among multiresolution
	systems of equations	wave interaction models		schemes with and without error control
				strategies
11:00-11:30		Coffei	E BREAK	
11:30-12:00	Z. Strakoš S4.7	P.M. Santini S5.8	G.V. Milovanović S7.5	J. Winkler G67
	Matching moments and Krylov subspace	Commuting vector fields and integrable	Multiple orthogonal polynomials and gen-	Approximate greatest common divisors of
	methods	PDEs of hydrodynamic type	eralized quadrature formulae	Bernstein polynomials
12:00-12:30	H. Sadok S4.6	B. Prinari S5.6	S.E. Notaris S7.6	D. Lera G37
	A new approach to conjugate gradient	Coupled Maxwell-Bloch equations with	The error norm of quadrature formulae	Properties and numerical results of a par-
	and GMRES convergence	inhomogeneous broadening for a 3-level		allel algorithm for global optimization
10.00 10.00		system		problems
12:30-13:00	K. Jbilou S4.4	P. Sacks S5.7	P. Wożny S7.9	G. Zanghirati G68
	Block Arnoldi-based methods for large	Numerical solution of inverse scattering	Properties and applications of con-	ParJoInv: high-performance scientific
	scale discrete-time algebraic Riccati equa-	problems and application to nonlinear	strained dual Bernstein polynomials	computing for multidimensional joint in-
12.00 14.00	tions	evolution equations		version
$\frac{13:00-14:00}{0}$	N	LU Character 011	NCH	Or the Children Children
Chair	NAUTILUS: S4	CYPREA: SII	ALVANIA: S7	OPALIA: G.M. DEL CORSO
10:00-10:30	Y.J. WU 54.8	M. Benzi S11.1	A. Buitneel S7.1	A. Salam G58
	Preconditioned multiparameter and	Larly research on matrix iterations: the	Quadrature on the positive real line with	Equivalence between modified symplectic
	Newton-multiparameter iterative meth-	Italian contribution	quasi and pseudo orthogonal rational	Gram-Schindt and Householder SK algo-
16.30-17.00	B Zhong S4.0	H Le Ferrand S115	B Cools S7.2	K Aibara C3
10.50 17.00	Distinct preconditioned HSS iteration	Algebraic continued fractions: the contri-	From optimal cubature formulae to	Convergence of the IDBstab method us-
	method for non-Hermitian positive defi-	bution of B de Montessus de Ballore	Chebyshev lattices: a way towards gen-	ing the residual smoothing techniques
	nite linear systems	button of 10. de Montessus de Danore	eralised Clenshaw-Curtis quadrature	ing the residual shibbthing teeninques
17:00-17:30	K. Havami S4.3	D. Tournes S11.7	K. Deckers S7.3	S. Fujino G23
	Inner-iteration GMRES methods for un-	Calculating firing tables in 18th and 19th	Asymptotics for Christoffel functions	A study on preconditioning suited for
	derdetermined least squares problems	centuries	based on orthogonal rational functions	IDR(s)-residual reduction method
17:30-18:00		Coffe	E BREAK	
Chair	Nautilus: S4	Cyprea: P. Lima	Alvania: S7	Opalia: A. Salam
18:00-18:30	G. Meurant S4.5	D. Okada G47	T.E. Perez S7.7	M. Popolizio G52
	The computation of isotropic vectors	On a formal solution for a discretized	Continuous Sobolev orthogonal polyno-	Restarted rational Krylov approxima-
		SIRS epidemic model	mials on the unit ball	tions to matrix functions
18:30-19:00	ZZ. Bai S4.1	E. Longo G39	W. Van Assche S7.8	G.M. Del Corso G16
	Preconditioning and iterative methods for	Appell polynomials of second kind and re-	Orthogonal polynomials on a bi-lattice	A unification of unitary similarity trans-
	complex linear systems	lated interpolation problem		forms to compressed representations
19:00-19:30		T.Z. Ismagilov G29		L. Bergamaschi G7
		Modelling photonic crystal devices using		Relaxed mixed constraint preconditioners
10.45.00.15		second order finite volume method	(for generalized saddle point linear systems
19:45-20:45		COCKTAIL HOUR (OF	FFERED BY SPRINGER)	
20:45		Dim	INER	

Tuesday 11th October

Chair:	Nautilus: A. Degasperis				
9:00-10:00	0.00 M. Ablowitz Nonlinear waves: from oceans to "optical graphene"				
Chair	NAUTILUS: S10	Cyprea: S9	Alvania: S6	Opalia: S11	
10:00-10:30	S. Serra Capizzano S10.7	O. Pironneau S9.6	R. Andreani S6.1	C. Brezinski S11.2	
	Toeplitz operators with matrix-valued sym-	POD for complex black-scholes equations	Constant positive generators: a new con-	André Louis Cholesky: family, life, and	
	bols and some (unexpected) applications		straint qualification	work	
10:30-11:00	Y. Eidelman S10.3	A. Quarteroni S9.7	J.M. Martinez S6.8	M.J. Gander S11.4	
	Quasiseparable representations of matri-	Reliable reduced basis method for effi-	Remarks on constrained optimization	Euler, Lagrange, Ritz, Galerkin, Courant,	
	ces and discrete systems with boundary	cient geometrical parametrizations		Clough: on the road to the finite element	
11.00 11.20	conditions	Coppe		method	
11:00-11:30 11:20 12:00	D Vandahril S10.0	O P Widhard S0 10	A L Custodio C6 2	IC Dhomhnog C11.2	
11:30-12:00	R. vandebril 510.9	D.B. widiund 59.10	A.L. Custodio 50.3	J.G. Dnombres 511.3	
	Chasing bulges of rotations? A new fam-	Domain decomposition algorithms for	Direct multisearch: a new DFO approach	How to evaluate the historical and epistemo-	
	ily of matrices admitting linear time QR-	H(curl) problems	for multiple objective functions	logical role of practical computing methods	
19.00 19.20	steps M Van Banal S10.8	M Formation S0.4	M Signla S6.0	for the fundamental theorem of algebra	
12.00-12.30	Orthogonal functions and matrix compu	Domain decomposition methods for total	Stochastia modelling techniques most	The early history of convergence acceler	
	tations	variation minimization	practical poods	ation methods	
12.30 - 13.00	B Jannazzo S10.5	L Gastaldi S9 5	U M Garcia-Palomares S6.5	IL Willis G66	
12.00 10.00	Means of structured matrices: properties	Local mass conservation for the finite el-	Numerical tests on a new strategy for par-	Series acceleration through precise re-	
	applications and algorithms	ement immerse boundary method	allel derivative free optimization	mainder asymptotics	
13:00-16:00	applications and agorithms	Lu	NCH	manuel asymptotics	
Chair	Nautilus: S5	Cyprea: S9	Alvania: R. D'Ambrosio	Opalia: U. Kangro	
16:00-16:30	B. Konopelchenko S5.5	D. Boffi S9.1	M.Á. Fortes G22	E. Alaidarous G4	
10.00 10.00	Quasiclassical Da Rios system and gradi-	Some remarks on eigenvalue approxima-	Multiresolution analysis for surfaces	On an expansion method for inverting nu-	
	ent catastrophe for vortex filament mo-	tion arising from partial differential equa-		merically a first kind Fredholm integral	
	tion	tions		equation	
16:30-17:00	M. Klaus S5.4	C. Carstensen S9.2	P. Lima G38	M. Basile G6	
	Spectral properties of the Lax operator	A posteriori energy norm error estimation	Numerical solution of the density profile	A numerical method for a nonlinear	
	for the matrix nonlinear Schrödinger sys-	for 2nd-order partial differential equa-	equation for non-newtonian fluids	integro-differential boundary value prob-	
	tem	tions		lem	
17:00-17:30	C. Schiebold S5.9	F. Rapetti S9.8	R. Garrappa G26	D. Conte G11	
	Recursion operators and hierarchies of	Dispersion analysis of spectral element	Generalized exponential integrators for	Collocation based numerical methods for	
	noncommutative KdV-type equations	methods on triangles for elastic wave	fractional differential equations	Volterra integro-differential equations	
17.20 10.00		propagation			
$\frac{17:30-18:00}{Chain}$	Nummer of CF	Coffe.	E BREAK	Operate M.D. Copperation	
<u>Unair</u>	NAUTILUS: 55	CYPREA: S9	ALVANIA: J. WINKLER	UPALIA: M.R. CAPOBIANCO	
18:00-18:30	F. Demontis 55.3	A. Veeser 59.9	K.Castillo G10	U. Kangro G30	
	Exact solutions to the locusing discrete	Snarp constant-free a posteriori error	Szego and para-ortnogonal polynomials	Convergence of conocation method with	
	nominear Schrödinger equation	bounds for obstacle problems	on the real line. Zeros and canonical spec-	delta functions for integral equations of	
18:30-19:00	C. van der Mee S5.10	L. Formaggia S9.3	C. Craviotto G13	S.P. Oliveira G48	
10.00 10.00	Novel formulation of discrete integrable	Numerical modelling for geoscience appli-	Applications of PPC-fractions and Szegö	Some remarks on the alternate trapezoidal	
	nonlinear Schrödinger equations	cations	polynomials to frequency analysis	quadrature method for Fredholm integral	
			r , ,	eigenvalue problems	
19:00-19:30	T. Aktosun S5.1	D. Martin G44	W. Themistoclakis G62	M. Van Daele G64	
	Exact solutions to integrable nonlinear	Minimization of functionals on the solu-	Polynomial approximation via discrete de	Adaptive Filon methods for the computa-	
	evolution equations	tion of a large-scale ill-posed problem	la Vallée Poussin means	tion of highly oscillatory integrals	
19:30		DIN	INER		

Wednesday 12th October

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Chair:	Nautilus: O. Widlund				
9:00-10:00	0–10:00 M. Benzi				
	Approximation of matrix functions arising	in the analysis of complex networks			
Chair	NAUTILUS: S3	Cyprea: S1	Alvania: S8	Opalia: P. Sablonnière	
10:00-10:30	R. Chan S3.1	L.N. Trefethen S1.9	A.I. Aptekarev S8.1	F. Di Tommaso G18	
	A variational approach for exact his-	Robust rational interpolation and least-	Strong asymptotics of Nuttall-Stahl poly-	Complementary Lidstone interpolation	
	togram specification	squares	nomials	on scattered data sets	
10:30-11:00	G. Steidl S3.9	H.P. Blatt S1.2	J. Gilewicz S8.3	ML. Mazure G45	
	Quadrature errors, discrepancies and	Growth and value distribution of rational	Approximation of smooth functions by	Polynomial splines as examples of Cheby-	
	variational dithering	approximants	weighted means of N-point Padé approx-	shevian splines	
		2	imants		
11:00-11:30		Coffe	E BREAK		
Chair	Nautilus: S3	Cyprea: S1	Alvania: S8	Opalia: ML. Mazure	
11:30-12:00	C. Estatico S3.3	I.H. Sloan S1.7	V.A. Kalyagin S8.4	S. Remogna G54	
	Iterative regularization for nonlinear	Polynomial approximation on spheres -	On vector continued fractions associated	Local bases for quadratic deficient spline	
	imaging in Banach spaces	Generalizing de la Vallée Poussin	with Nikishin systems	spaces on criss-cross triangulations	
12:00-12:30	J. Nagy S3.6	JP. Berrut S1.1	L. Lorentzen S8.6	P. Sablonnière G57	
	A nonlinear inverse problem in polyener-	Applications of linear barycentric rational	Convergence of random continued frac-	Solving nonlinear equations using Her-	
	getic tomosynthesis image reconstruction	interpolation at equispaced nodes	tions	mite interpolation by polynomial or ra-	
				tional splines	
12:30-13:00	F. Sgallari S3.7	W. Pleśniak S1.5	M.A. Piñar S8.8	O. Salazar Celis G59	
	Alternating Krylov subspace image	Polynomial inequalities on subanalytic	Bernstein–Szego polynomials on the tri-	Multivariate data fitting with error con-	
	restoration methods	sets	angle	trol	
13:00-14:00		Lu	INCH		
15:00	EXCURSIONS				
19:30		DIN	NNER		

Thursday 13th October

9:00.1000 L. Reichel Rational Lanczos methods for the approximation of matrix functions Vivania: 50 OPALA: 51 10:00-1030 F.M. Dopico \$10.2 E.J. Weniger \$2.8 C. Hammer \$6.6 C. Mastrolanni \$1.3 10:00-1030 F.M. Dopico \$10.2 E.J. Weniger \$2.8 C. Hammer \$6.6 C. Mastrolanni \$1.3 10:00-1103 L. Gemigrani \$10.4 R. Borghi \$2.1 N. Krejic \$6.7 D. Occorsio \$1.4 11:00-1103 L. Gemigrani \$10.4 R. Borghi \$2.1 N. Krejic \$6.7 D. Occorsio \$1.4 11:00-1103 T.G. Gemigrani \$10.1 YB. Hu \$2.2 S. Blavia \$6.2 M.G. Russo \$1.6 11:00-1103 N. Mustronardi \$10.1 YB. Hu \$2.2 S. Delavia \$6.2 M.G. Russo \$1.6 11:00-1200 N. Mustronardi \$10.1 YB. Hu \$2.2 S. Delavia \$6.2 M.G. Russo \$1.6 11:00-1200 N. Mustronardi \$10.1 K. Bouhanitos algoptimation approximation approximation approximation approximation approximation approximation approxim	Chair:	air: Nautilus: M. Gutknecht					
Chair NATTURE S10 CPURALS S2 Alaxatal S4 OPURALS S1 1000-1030 F.M. Dopico S10.2 E.J. Weniger S2.8 C. Hammer Soft Statement and Statement	9:00-10:00	9:00–10:00 L. Reichel Rational Lanczos methods for the approximation of matrix functions					
10:00-10:30 F.M. Dopico S10.2 E.J. Woniger S2.8 C. Harmer S6.6 G. Mastroiania S1.3 10:00-10:30 F.M. Dopico S10.4 R. Borghi S2.1 N. Krejic S6.7 Weighted polynomial approximation peak tension of Padi-type approximation peak tension and peak tension approximation of the European inpacts of the European inpacts of the European inpacts of the European inpact inpact inpact inpact inpact inpact inpact inpact i	Chair	NAUTILUS: S10	Cyprea: S2	Alvania: S6	Opalia: S1		
Recovery of eigenvectors of matrix poly mains from generalized Fielder In- carizations Extensions of Padé-type approximants mean Emission Trade System Weighted polynomial approximation pean Emission Trade System 10:30–11:00 Efficient numerical methods for the poly main spectral factorization R. Borghi S2.1 N. Krejie S.6.7 D. Occorsio S1.4 11:30–12:00 B. Beckermann S10.1 X-B. Hu S2.2 S. Bellavia S6.2 M.G. Russo S1.6 11:30–12:00 B. Beckermann S10.1 X-B. Hu S2.2 S. Bellavia S6.2 M.G. Russo S1.6 12:00–12:30 N. Mastromardin S10.4 N. Kregie Proconditioner updats for sequences of transformation and corresponding con- transformation and corresponding con- transformation and corresponding con- transformation by Iltrata's method S1.6 M.G. Russo S1.6 12:00–12:30 N. Mastromardin S10.6 M. Redivo-Zaglia S2.5 A. Friedlander S6.4 M.G. Russo S1.6 21:00-17:30 M. Mitrouli G44 Mussaki S2.3 A. Friedlander S6.4 M. Redivo-Zaglia S2.6 A. Friedlander S6.4 M. Redivo-Zaglia S2.6 A. Friedlander S6.4 A. Sormariva S1.6 12:00-17:20 V. Druskin G20 K. Noor S2.4	10:00-10:30	F.M. Dopico S10.2	E.J. Weniger S2.8	C. Hammer S6.6	G. Mastroianni S1.3		
10:30–11:00 entremains \$10.4 R. Dorghi \$2.1 N. Krejic \$8.5, 1 D. Occorrio \$1.4 10:30–11:00 Efficient numerical methods for the polymical series transformation for a class of factorials be size D. Occorrio \$1.4 11:00–11:30 Exact methods for the polymical series transformations and corresponding construction applied to the Sylvester equation applied to the Sylvester equations N. Kregic \$8.7 M. G. Russo \$1.6 12:00–12:30 N. Mastronardi S10.6 XB. Hu \$52.2 S. Dellavia \$6.2 M.G. Russo \$1.6 12:00–12:30 N. Mastronardi S10.6 M. Redivo-Zagila \$2.5 A. Freiclander \$6.4 A. sommariva \$1.8 12:00–12:30 N. Mastronardi S10.6 M. Redivo-Zagila \$2.5 A. Freiclander \$6.4 A. Sommariva \$1.8 12:00–12:00 M. Mitrouli G4 M. Wasski \$2.3 Some aspects of the integrabe discrete classing individual series classing individua series classing individual series classing i		Recovery of eigenvectors of matrix poly- nomials from generalized Fiedler lin-	Extensions of Padé-type approximants	Modeling long-term impacts of the Euro- pean Emission Trade System	Weighted polynomial approximation		
Fiftient immerical methods for the polynomial spectral factorization Analysis of the convergence features of the starse fractorially diverging asymptotic series Interstance method with variable sample is in the starse method with variable sample is in the convergence of factorially diverging asymptotic series Interstance method with variable sample is in the starse method with variable sample is in the convergence of extended Lagrange interpolation on unbounded intervals arising in optimization 11:00-12:30 N. Mastronardi S10.1 XB. Hu S2.2 S. Bellavia S6.2 M.G. Russo M.G. Russo S1.6 12:00-12:30 N. Mastronardi S10.0 K.edivo-Zaglia S2.3 S. Bellavia S6.2 A. Sommariva S1.8 12:30-12:30 M. Mitronli G4 failing and the tage sample and the starse internation by litroid is method in the variable sample and related issues S2.3 A. Freedilander S6.4 A. Sommariva S1.8 13:300-14:00 M. Mitronli G4 failing and the tage sample and the sa	10:30-11:00	earizations L. Gemignani S10.4	R. Borghi S2.1	N. Kreiic S6.7	D. Occorsio S1.4		
nomial spectral factorization 5 transformation for a class of factorially diverging asymptotic series guerre zeros and some applications 11:00-11:30 COPTER BREAK Stansformation for a class of factorially diverging asymptotic series Belsize guerre zeros and some applications 11:00-21:200 B. Beckermann Stiol. X-D. Hu S2:2 S. Bellavia S6:2 M.G. Russo S1:6 An error analysis for rational Galekin projection applied to the Sylvester eque to an N. Mastronardi S10:6 N. Redivo-Zaglia S2:5 A. FriedBander S6:2 M.C. Russo S1:8 12:00-12:30 N. Mastronardi S10:6 M. Redivo-Zaglia S2:3 Some aspects of the integrable discrete and related issues N. Redivo-Zaglia S2:3 A. FriedBander S6:4 A. Sommariva S1:8 12:00-14:20 M. Mitrouli G4 H. Verasski S2:3 Some aspects of the integrable discrete and related issues Some aspects of the integrable discrete and related issues COPREA: S2 ALVANA: G. KULIKOV Opatia: G. MucovaNović 16:00-16:30 A. Bouhamidi G2 C. N. Moore S2:4 L. Actecto Quadrature rules of singular integration of anebtods, septence transformations and steepest descent methods S. Amat G2 16:30-10:30 Defining and sin statizal modeling integration of a gebraic/loggettransfor		Efficient numerical methods for the poly-	Analysis of the convergence features of the	A line search method with variable sam-	Interlacing properties of generalized La-		
11:00-11:30 Versile asymptotic series COPPER BLEAK Copper BLEAK 11:30-12:00 B. Beckermann S1:0.1 X-B. Hu S2:2 S. Bellavia S6:2 M.G. Russo S1:6 11:30-12:00 D. Bockermann S1:0.1 X-B. Hu S2:2 S. Bellavia S6:2 M.G. Russo S1:6 11:30-12:00 Tracking the dominant subspace of indep subspace methods for sequences of algorithm subspace of indep subspace methods for sequences of algorithm subspace of indep subspace methods for sequences of algorithm subspace subspace methods for sequence in the presence of algorithm subspace subspace methods for sequence in the presence of algorithm subspace subspace methods for second putting related issues Corprea: S2 AuANNI: G. KULIKOV Ormatic Creation of the second subspace methods for second order IVPs S. Amatica G. M.G. Russo Simple: subspace methods for second order IVPs S. Amatica G. M.G. Russo Simple: subspace methods for second order IVPs S. Amatica Computing Felete and Lebesgue politics implication or unbounded intervals Simple: subspace methods for second order IVPs S. Matica S. Amatica G. Computing Felete and Lebesgue politics implication or unbounded intervals Simple: subspace methods for second order IVPs </td <td></td> <td>nomial spectral factorization</td> <td>δ transformation for a class of factorially di-</td> <td>ple size</td> <td>guerre zeros and some applications</td>		nomial spectral factorization	δ transformation for a class of factorially di-	ple size	guerre zeros and some applications		
11:00 11:00 COPTEM BREAK 11:30 12:00 11:00		1	verging asymptotic series	1	0 11		
11:30–12:00 B. Beckermann S1.01 XB. Hu S2.2 S. Bellavia S2.0 M.C. Russo S1.6 11:30–12:00 An error analysis for rational Galerkin Parfafan and its application to sequence transformations and corresponding contracts for sequences of symmetric positive definite linear systems interpolation on unbounded intervals arising in optimization A. Sommariva S1.8 12:30–12:30 N. Matronardi S10.6 M. Redivo-Zaglia S2.3 Friedlander S6.4 A. Sommariva S1.8 12:30–13:00 M. Mitrouli G4 M. Redivo-Zaglia S2.3 Friedlander S6.4 S. Bollavia A. Sommariva S1.8 12:30–13:00 M. Mitrouli G4 M. Redivo-Zaglia S2.3 Friedlander S6.4 Nomerainezation on unbounded intervals 13:00–14:00 Compatibility introta's method M. Iwasaki S2.3 States of the integrable discrete States of the integrable discrete A mounterial integration over the square in the presence of algebraic/logarithmic singularities 13:00–14:00 Curnus: Z. Strakoś C.N. Moore S2.4 L Aceto C2 M. Excapolia G. M. Locavavoré 16:00–16:30 A. Bouhamidi G8 C.N. Moore <td>11:00-11:30</td> <td></td> <td>Coffe</td> <td>E BREAK</td> <td></td>	11:00-11:30		Coffe	E BREAK			
An error analysis for rational Galerkin transformations and corresponding con- tion Preconditioner updates for sequences of transformations and corresponding con- transformations and corresponding con- transformation algorithms Mean convergence of extended Lagrange mitting the dominant subspace of indef- inite matrices Mean convergence of extended Lagrange arising in optimization formation by Error analysis for sequences of the matrices Mean convergence of extended Lagrange arising in optimization formation by Error analysis for sequences of the matrices Mean convergence of extended Lagrange arising in optimization formation by Error analysis for sequences of the matrices Mean convergence of extended Lagrange arising in optimization formation by Error analysis for sequences of the matrices Mean convergence of extended Lagrange arising in optimization formation by Error analysis for second formation by Error analysis for second and er IVPs formation are sequences of a sequence second and er IVPs formation are sequence for sequences of a sequence second and er IVPs formation are sequence for analysis for second and er IVPs formation are sequence for ansolation and sequence transformations and steepset descent metrical study of extrapolation and steepset descent metrical study of extrapolation and steepset descent metrical integratis on restarted Lanczos methods Second and er IVPs formation and error analysis for analysis for analysis for analysis for analysis of a sec dass of extrapolation techniques for a seclerating monotone algorithms in statistical models and the solution of an inverse problem and the solution of an inverse problem and the solution of an inverse problem and the soluti	11:30-12:00	B. Beckermann S10.1	XB. Hu S2.2	S. Bellavia S6.2	M.G. Russo S1.6		
 projection applied to the Sylvester equations and corresponding control of the Sylvester equations and corresponding control of the Sylvester equation and corresponding control of the Sylvester equation and corresponding control of the Sylvester equation and corresponding control of Strategies for spectrum slicing between the source of algebraic / Logarithmic singular integration of Strategies for spectrum slicing based on restarted Lanczos methods 17:30–18:00 18:30–10:30 19:30–10:30 19:30–10:30 19:30–10:30 19:30–10:30 19:30–10:30 19:30–10:30 19:30–10:30 19:30–10:30 19:30–10:30 19:30–10:30		An error analysis for rational Galerkin	Pfaffian and its application to sequence	Preconditioner updates for sequences of	Mean convergence of extended Lagrange		
tion 12:00-12:30 N. Mastronardi 12:00-12:30 N. Mastronardi 12:00-12:30 N. Mastronardi 12:00-12:30 N. Mastronardi 12:00-12:0 N. Mastronardi 12:00-12:		projection applied to the Sylvester equa-	transformations and corresponding con-	symmetric positive definite linear systems	interpolation on unbounded intervals		
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C. Fenu, Regularization techniques for the inversion of ground conductiv- M.L. Rodriguez, Geometric design of a dam by variational spline approx-	C. Fenu,						
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E. Francomano, An implicit time domain meshless formulation for M.R. Russo, Tikhonov regularization and matrix function evaluation of minors for weigning matri-							
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Friday 14th October

Chair:	Nautilus: G. Vainikko			
9:00-10:00	D. Bessis			
	Universal analytic properties of noise			
Chair	Nautilus: S3	Cyprea: D. Occorsio	Alvania: S8	Opalia: N. Krejic
10:00-10:30	P. Mathé S3.5	L. Abbas G1	A. Matos S8.7	D. Di Serafino G17
	Conjugate gradient iteration under white	Landau-Kolmogorov type inequalities for	Smoothing the Gibbs phenomenon using	Scalable AMG preconditioners for PDE-
	noise	the Hermite and closely connected mea-	Padé-Hermite approximants	constrained optimization problems
10.90 11.00	C V : 11 (22.10)	sures		
10:30-11:00	G. valnikko 53.10	A.F. Loureiro G40	G. Labann 58.5	M.V. Kulikova G32
	Cordial Volterra integral equations of the	On nonorthogonal polynomials generated	Order bases: computation and uses in	Array square-root approach for the max-
	nrst kind	by classical forms	Computer Algebra	Kelmon filtering methods
11:00-11:30		Coffe	E BREAK	Kaiman intering methods
Chair	Nautilus: S3	CYPREA: K. JBILOU	Alvania: S8	Opalia: P. D'Ambra
11:30-12:00	S. Siltanen S3.8	A. Fukuda G24	A. Cuvt S8.2	E. Larsson G35
	Electrical impedance imaging using non-	An application of the integrable discrete	Symbolic-numeric integration, multivari-	A radial basis function based partition of
	linear Fourier transform	hungry Toda equation to the eigenvalue	ate orthogonality and Padé approxima-	unity method for solving PDE problems
		computation	tion	
12:00-12:30	M. Donatelli S3.2	L. Laayouni G34	I. Yaman S8.10	P.G. Martinsson G43
	An iterative multigrid regularization	On the performance of the algebraic opti-	Radially orthogonal multivariate basis	Fast direct solvers for elliptic PDEs
	method for Toeplitz discrete ill-posed	mized Schwarz preconditioning methods	functions	
	problems			
12:30-13:00	U. Hämarik S3.4	E. Gallopoulos G25	F. Wielonsky S8.9	L. von Sydow G65
	A family of rules for parameter choice in	On projection methods for estimating the	Equilibrium problems for vector poten-	Adaptive, high-order methods to price op-
	Tikhonov regularization of ill-posed prob-	diagonal of a matrix inverse	tials	tions
12.00 14.00	lems with inexact noise level	Tr	NOL	
13.00-14.00 Chair	NAUTHUR, F. LADGON	Cyppea, I Nacy		ODALLAS O SALAZAD CELIC
16:00 16:20	F Maggio C41	B Distoniak (151	P D'Ambrosio C15	A Droux C10
10.00-10.30	High performance spectral element simu	Numerical methods for poplinger two	Stability analysis of Conoral Linear	A. Diaux G19 Formal OD algorithm and Markov
	lation of cardiac electrical function using	numerical methods for nominear two-	Nuström methoda	Bornstein inequalities
	CPU _e	parameter eigenvalue problems	Nystrom methods	Demstem mequanties
16:30-17:00	P. Contu G12	M. Sedlacek G60	M.J. Rodrigues G55	J. Horáček G28
	Fast and effective numerical methods for	Data based regularization for discrete ill-	A Tau method for nonlinear dynamical	On the calculation of resonances by
	2D photonic crystals	posed problems	systems	means of analytical continuation
17:00-17:30	P. D'Ambra G14	S. Singer G61	G.Y. Kulikov G33	WS. Lee G36
	High-performance large eddy simulation	Kogbetliantz-like method for hyperbolic	A new approach to control the global er-	Multivariate Prony's method
	of incompressible turbulent flows	SVD	ror of numerical methods for differential	
	~		equations	
17:30	CLOSING REMARKS			