

		Monday, June 25 – Morning			
8H-8H30		Registration			
8H30-9H		Welcome !			
Plenary Lecture	9H-10H	<p style="text-align: center;"><b>Tao Tang</b> <i>High-Order and Adaptive Time-Stepping Methods</i></p>			Room : Didon III
	10H-10H30	Coffee Break			
S e s s i o n 1	ICOSAHOM'12	Room : Didon I	Room : Didon II	Room : Didon III	Room : Sidi Bou Said
		<b>MS 1-a</b> : Adaptive Spectral and Generalized Polynomial Chaos Methods for PDEs with random inputs (*) <b>Organizer</b> : Christoph Schwab	<b>CT 1-a</b>	<b>CT 1-b</b>	<b>MS 2-a</b> : High-order methods for non-standard discretizations : New developments and applications (*) <b>Organizers</b> : Matthias Maischak & Alexey Chernov
	10H30-11H	<b>R. Andreev</b>  <i>Sparse tensor approximation of parametric eigenvalue problems</i>	<b>A.P. Engsig-Karup, O. Lindberg, S.L. Glimberg, H. Bingham, B. Dammann, P. Madsen</b>  <i>A high-order WENO finite difference water wave model for interactive ship-wave simulation</i>	<b>R. Puragliesi, E. Leriche</b>  <i>Proper orthogonal decomposition of a fully confined cubical differentially heated cavity flow at rayleigh number <math>ra = 10^9</math></i>	<b>A. Chernov</b>  <i>Optimal convergence estimates for the trace of the polynomial <math>L^2</math>-projection operator on a simplex in arbitrary dimension</i>
	11H-11H30	<b>A. Chkifa</b>  <i>Sparse adaptive Taylor approximation algorithms for parametric and stochastic elliptic PDE's</i>	<b>F. Z. Nouri, F. Saci, E. Canot</b>  <i>A wavelet method for a complex flow problem</i>	<b>H. Barucq, L. Boillot, H. Calandra, J. Diaz</b>  <i>High-order approximations of the wave equation for Reverse Time Migration in TTI media</i>	<b>J. M. Melenk</b>  <i>Existence of H-matrix approximants to the inverse of BEM matrices</i>
	11H30-12H	<b>M. Hansen</b>  <i>Analytic regularity and nonlinear approximation of a class of Parametric semilinear elliptic pdes</i>	<b>O. Lindberg, A.P. Engsig-Karup, H.B. Bingham</b>  <i>An ale weighted least squares method for simulation of violent water wave impact</i>	<b>B. Helenbrook</b>  <i>High-order adaptive ale calculations of solidification</i>	<b>P. Dörsek</b>  <i>Symmetry-free, p-robust equilibrated error indication for the hp-version of the fem in almost incompressible linear elasticity</i>
	12H-12H30	(*) 40 min for each talk of MS 1	<b>H. Barucq, H. Calandra, J. Diaz, F. Ventimiglia</b>  <i>High Order Time Discretization for the First Order Formulation of the Wave Equation. Application to the Reverse Time Migration</i>	<b>C. Cantwell, A. Bolis, D. Moxey, S. Sherwin</b>  <i>Optimal parallelisation of hybrid spectral-spectral/hp discretisations</i>	(*) 40 min for each talk of MS 6
13H00-15H00		Lunch			

**Monday, June 25 – Afternoon**

Plenary Lecture	15H00-16H00	<b>Francesca Rapetti</b> <i>Spectral Element Methods on Unstructured Meshes</i>			
	16H00-16H30	Coffee Break			
S e s s i o n 2	ICOSAHOM'12	Room : Didon I	Room : Didon II	Room : Didon III	Room : Sidi Bou Said
		MS 1-b : Adaptive Spectral and Generalized Polynomial Chaos Methods for PDEs with random inputs (*)	MS 2-b : High-order methods for non-standard discretizations : New developments and applications (*)	CT 1-c	CT 1-d
	Organizer : Christoph Schwab	Organizer : Matthias Maischak & Alexey Chernov	Chair :	Chair :	
	16H30-17H00	R. Tempone <i>Strategies for optimal polynomial approximation of elliptic PDEs with stochastic coefficients</i>	M. Ben-Romdhane, S. Ajerid, T. Lin <i>Higher-degree immersed finite element spaces with an interior penalty method for elliptic interface problems</i>	V. Legat, K. Slaoui, J. Lambrechts, J.-F. Remacle <i>Stereographic coordinates for efficient high-order discontinuous Galerkin Finite Element Method</i>	M. Bürg <i>Convergence of an automatic hp-adaptive finite element method for maxwell's equations</i>
	17H00-17H30	M. Motamed <i>The second order wave equation with random discontinuous Coefficients</i>	H. Egger, C. Waluga <i>Improved hp estimates for DG approximations with applications in incompressible flow</i>	C. Agut, J. Diaz <i>Analytical and Numerical Stability Analysis of an Interior Penalty Discontinuous Galerkin Method</i>	M. Medvinsky, S. Tsynkov, E. Turkel <i>Unaligned interfaces for the transmission and scattering of waves with high order accuracy</i>
	17H30-18H00	(*) 40 min for each talk of MS 1	H. Brandsmeier, K. Schmidt, C. Schwab <i>Standard and Non-standard hp-FEM for High Frequency Wave Propagation in Periodic Media</i>	A. Fabregat, C. Mavriplis <i>High Order Discontinuous Galerkin Advection and Navier-Stokes Solvers: Comparisons with Spectral Element and Adaptivity</i>	L. Haupt, J. Stiller <i>A competitive p-multigrid method for the helmholtz-equation</i>
	18H00-18H30		(*) 40 min for each talk of MS 6	J.L. Gonçalves, S.M. Gomes, P.R.B. Devloo <i>Goal-Oriented hp-adaptive strategy for the discontinuous Galerkin method</i>	F. Rapetti <i>Dissipation, dispersion and stability analysis of some high order methods for elastic wave propagation</i>
18H30-19H00			A. Farias, P. Devloo, S. Gomes, J. Gonçalves <i>Continuous-discontinuous galerkin finite element method for the girkmann problem</i>	K. Virta <i>A high order accurate finite difference scheme for simulation of sound propagation in underwater acoustics</i>	

Plenary Lecture	9H00-10H00	<b>Jaap van der Vegt</b> <i>HP-Multigrid as smoother algorithm for higher order discontinuous Galerkin discretizations of advection dominated flows</i>			
		Chair : Jan S. Hesthaven		Room : Didon III	
	10H00-10H30	Coffee Break			
S e s s i o n 1	<b>ICOSAHOM'12</b>	Room : Didon I	Room : Didon II	Room : Didon III	Room : Sidi Bou Said
		<b>MS 3-a</b> : Numerical schemes based on algebraic topology	<b>MS 4</b> : New Formulations of Stokes and Navier-Stokes Problems : Spectral discretization	<b>CT 2-a</b>	<b>CT 2-b</b>
		<b>Organizer : Marc Gerritsma</b>	<b>Organizer : Nahla Abdellatif</b>	<b>Chair : Hend Ben Ameer</b>	<b>Chair : Ernest Mund</b>
	10H30-11H	<b>D. Toshiwal</b> <i>A geometric approach towards momentum conservation</i>	<b>C. Bernardi</b> <i>A penalty algorithm for the spectral element discretization of the Stokes problem</i>	<b>M. El Bouajaji, N. Gmati, S. Lanteri, J. Salhi</b> <i>Coupling of an exact transparent boundary condition with a discontinuous Galerkin method for the solution of the time-harmonic Maxwell equations</i>	<b>R. Mehri, C. Mavriplis</b> <i>Design of a micro-couette flow for studying red blood cell aggregation using spectral elements</i>
	11H-11H30	<b>P. P. Rebelo</b> <i>Brinkman flow using Mimetic Spectral Element Method</i>	<b>N. Abdellatif</b> <i>A new formulation of the Stokes problem in a cylinder, and its spectral discretization</i>	<b>C. Acosta Mindi, D.A. Kopriva</b> <i>Discontinuous galerkin spectral element approximations on moving meshes for wave scattering from reflective moving boundaries</i>	<b>N. Peres, S. Poncet, E. Serre</b> <i>A 3d pseudo-spectral algorithm to simulate turbulent flows in cylindrical rotating cavities</i>
	11H30-12H	<b>R. R. Hiemstra</b> <i>Compatible nurbs</i>	<b>N. Chorfi</b> <i>Spectral Discretization of the Vorticity, Velocity, and Pressure Formulation of the Stokes Problem</i>	<b>F. Peyrusse, N. Glinsky, S. Lanteri</b> <i>A high-order discontinuous Galerkin method for viscoelastic wave propagation</i>	<b>G. Fontaine, S. Poncet, E. Serre</b> <i>Multidomain extension of a divergence-free pseudo-spectral algorithm for the direct numerical simulation of wall-confined rotating flows</i>
12H-12H30		<b>S. Trabelsi</b> <i>Spectral discretization of the vorticity, velocity and pressure formulation of the axisymmetric Navier-Stokes problem</i>	<b>L. Moya, St. Descombes, S. Lanteri</b> <i>Locally implicit time integration strategies in a high order discontinuous Galerkin method for Maxwell equations</i>	<b>A. Peplinski, P. Schlatter, P.F. Fischer, D. Henningson</b> <i>Stability tools for the spectral-element code nek5000; application to jet-in-crossflow</i>	
	13H-15H	Lunch			

Plenary Lecture	15H00-16H00	<p style="text-align: center;"><b>Giovanni Russo</b> <i>Efficient computation of the semiclassical limit of the Schrödinger</i></p> <p>Chair : Francesca Rapetti <span style="float: right;">Room : Didon III</span></p>			
	16H00-16H30	Coffee Break			
S e s s i o n 2	<b>ICOSAHOM'12</b>	Room : Didon I	Room : Didon II	Room : Didon III	Room : Sidi Bou Said
		<b>MS 3-b</b> : Numerical schemes based on algebraic topology	<b>MS 2-c</b> : High-order methods for non-standard discretizations : New developments and applications	<b>CT 2-c</b>	<b>CT 2-d</b>
	Organizer : Marc Gerritsma	Organizers : Matthias Maischak & Alexey Chernov	Chair : Michel Fournié	Chair : Adel Blouza	
	16H30-17H00	F. Rapetti <i>Multigrid operators for Whitney finite elements on simplices</i>	M. Maischak <i>Dual mixed hp-methods for FEM and FEM-BEM coupling with contact</i>	E. Leriche, G. Labrosse <i>Stokes eigenmodes, potential vector -- vorticity correlation and corner vortices in trihedral rectangular corner</i>	C. Canuto, R. Nochetto, M. Verani <i>Adaptive Fourier and Legendre Galerkin Methods</i>
	17H00-17H30	M. Gerritsma <i>Conservative advection-diffusion in arbitrary domains</i>	S. Rjasanow, L. Weggler <i>ACA Compression for High Order BEM</i>	E. Ahusborde, M. Azaïez, S. Glockner, A. Poux <i>A contribution to the open boundary conditions for Navier-Stokes time-splitting methods</i>	J. Stiller, Ka. Bock <i>Generation of high-order polynomial patches from scattered data</i>
	17H30-18H00	J. J. Kreeft <i>Arbitrary order compatible finite elements on curvilinear quadrilaterals</i>	A. Byfut, A. Schröder <i>hp-Adaptive Extended Finite Element Method</i>	C. Jerbi, N. Abdellatif <i>Spectral element discretization of the vorticity, velocity and pressure formulation of the axisymmetric Navier-Stokes problem</i>	M. Moalla <i>Blow up in finite time for solution to a generalized quasi geostrophic equation</i>
18H00-18H30		S. Beuchler <i>Boundary concentrated Finite elements for optimal boundary control problems of elliptic PDEs</i>	S. Mohapatra, P. Dutt, B.V. Rathish Kumar <i>Least-squares hp spectral element methods for stokes equations on non-smooth domains</i>		

Wednesday, June 27 – Morning

Plenary Lecture	9H00-10H00	<p style="text-align: center;"><b>Raul Tempone</b> <i>Numerical Approximation of PDES with stochastic coefficients</i></p> <p>Chair : Chris Schwab <span style="float: right;">Room : Didon III</span></p>				
	10H00-10H30	Coffee Break				
S e s s i o n 1	<b>ICOSAHOM'12</b>	Room : Didon I	Room : Didon II	Room : Didon III	Room : Sidi Bou Said	Room : Valetta
		<p><b>MS 5</b> : Some Recent Advances on High-Order Methods and their Applications</p> <p>Organizer : Jie Shen</p>	<p><b>MS 6-a</b> : Spectral methods: new applications (*)</p> <p>Organizer : Sidi-Mahmoud Kaber</p>	<p><b>MS 7-a</b> : Towards the application of higher-order unstructured methods in industrial CFD</p> <p>Organizer : Koen Hillewaert</p>	<p style="text-align: center;"><b>CT 3-a</b></p> <p>Chair : Rajae Aboulaich</p>	<p style="text-align: center;"><b>CT 3-b</b></p> <p>Chair : Christine Bernardi</p>
	10H30-11H	<p><b>C. J. Xu</b> <i>Fractional Partial Differential Equations: Modeling and Computation</i></p>	<p><b>A. Blouza</b> <i>Spectral discretization of a shell model</i></p>	<p><b>R. Abgrall</b> <i>High order residual distribution scheme for Navier-Stokes equations</i></p>	<p><b>T. Arens</b> Superalgebraic Convergence in the Numerical Solution of 3D Boundary Integral Equations</p>	<p><b>M. Bergot, M. Duruflé</b> Higher-order optimal edge finite element for hybrid meshes</p>
	11H-11H30	<p><b>R. Pasquetti</b> <i>Towards a fourier-sem solver of fluid models in tokamaks</i></p>	<p><b>S. Auliac</b> <i>On the application of an interior point optimization method to a Laplacian problem with Signorini type boundary conditions</i></p>	<p><b>G. J. Gassner</b> <i>On the computational efficiency of a massively parallel discontinuous Galerkin spectral element method for the simulation of compressible turbulent flows</i></p>	<p><b>S. Rodriguez, B. Viaud, E. Serre</b> <i>Novel outflow boundary conditions for spectral direct numerical simulation of open rotating flows</i></p>	<p><b>J. Lambrechts, J.-F. Remacle</b> <i>Generation of provably correct curvilinear meshes</i></p>
	11H30-12H	<p><b>J. Shen</b> <i>Fast Spectral-Galerkin Methods for High-Dimensional PDEs in Unbounded Domains and Applications to the Electronic Schrödinger Equation</i></p>		<p><b>K. Hillewaert</b> <i>Convergence analysis of the discontinuous Galerkin method for direct Numerical simulation of industrial turbulent flows</i></p>	<p><b>W. Deconinck, C. Lacor</b> <i>Linearized Euler Equations Solved by a Spectral Difference Method with a Non-Reflecting Boundary Condition</i></p>	<p><b>D. Hall</b> <i>Discontinuous-galerkin transport on the yin-yang overset mesh</i></p>
	12H-12H30	<p><b>M. Azaiez</b> <i>Hodge-Helmholtz decomposition and applications</i></p>	(*) 40 min for each talk of MS 1	<p><b>F. Pochet</b> <i>Development of high-order discontinuous Galerkin methods for welding applications</i></p>	<p><b>M. Najaf</b> <i>Evolution Balanced Multidomain Spectral Solution of the High Speed Inviscid Flow over a Cylinder</i></p>	
	13H-15H	Lunch				

		Wednesday, June 27 – Afternoon			
Plenary Lecture	15H00-16H00	<p style="text-align: center;"><b>Marc Gerritsma</b> <i>Mimetic spectral element methods</i></p> <p>Chair : Emmanuel Leriche <span style="float: right;">Room : Didon III</span></p>			
	16H00-16H30	Coffee Break			
S e s s i o n 2	<b>ICOSAHOM'12</b>	Room : Didon I	Room : Didon II	Room : Didon III	Room : Sidi Bou Said
		<p><b>MS7-b</b> : Towards the application of higher-order unstructured methods in industrial CFD</p> <p style="text-align: center;">CT 3-c</p>	CT 3-c	CT 3-d	CT 3-e
		Organizer : Koen Hillewaert	Chair : Fahmi Ben Hassen	Chair : Ernest Mund	Chair : Jasper Kreeft
	16H30-17H00	<p><b>F. Bassi</b></p> <p><i>Implementation of an Explicit Algebraic Reynolds Stress model in an implicit very high-order Discontinuous Galerkin solver</i></p>	<p><b>G. Billet, J. Ryan, M. Borrel</b></p> <p><i>A Runge Kutta Discontinuous Galerkin Approach To Solve Reactive Flows On Conforming Hybrid Grids</i></p>	<p><b>F. Auteri, L. Quartapelle</b></p> <p><i>Laguerre simulation of boundary layer flows: treatment of the condition at large distance from the wall'</i></p>	<p><b>J. Satouri</b></p> <p><i>Mortar spectral method in axisymmetric domains</i></p>
	17H00-17H30	<p><b>A. D. Beck</b></p> <p><i>On the accuracy of high-order Discontinuous Galerkin methods for the simulation of underresolved turbulence</i></p>	<p><b>T. Toulorge, W. Desmet</b></p> <p><i>Optimal Runge-Kutta Schemes for Discontinuous Galerkin Spatial Discretizations Applied to Wave Propagation Problems</i></p>	<p><b>B. Shizgal</b></p> <p><i>Spectral method of solution of the Fokker-Planck and Schrödinger equations; The Approach to Equilibrium</i></p>	<p><b>G. Andriamaro, M. Ainsworth, O. Davydov</b></p> <p><i>Bernstein-Bézier Vector Finite Elements</i></p>
	17H30-18H00	<p><b>A. Bolis</b></p> <p><i>From h to p efficiently: Optimal implementation strategies for time-dependent solvers</i></p>	<p><b>L. Halpern, J. Ryan, M. Borrel</b></p> <p><i>Space-time non conforming discontinuous galerkin method applied to euler/navier-stokes coupling</i></p>		<p><b>G. Rubio, F. Fraysse, L. González, J. de Vicente</b></p> <p><i>P-adaptation algorithm based on truncation error</i></p>
	18H00-18H30	<p><b>M. J. Brazell</b></p> <p><i>Compressible Navier-Stokes simulations using continuous <math>p = 2</math> Tetrahedral elements and local mass matrix inversion</i></p>	<p><b>M. Parsani, D. Ketcheson</b></p> <p><i>Design of optimal explicit linearly stable strong stability preserving runge-kutta schemes for the spectral difference method</i></p>		<p><b>J. van Zwieten, Ru. Henkes, D. van der Heul, K. Vuik, R. Ijzermans</b></p> <p><i>DGFEM-Discretisation of a Nonconservative 1D Multiphase Flow Model</i></p>
	18H30-19H00	<p><b>A. Ghidoni</b></p> <p><i>Investigation of near-wall grid spacing effect in high-order Discontinuous Galerkin RANS computations of turbomachinery flows</i></p>			

Thursday, June 28 – Morning					
Plenary Lecture	9H00-10H00	<b>Rémi Abgrall</b> <i>Recent developments on very high order stabilized finite element methods</i>			Room : Didon III
	10H00-10H30	Coffee Break			
S e s s i o n 1	ICOSAHOM'12	Room : Didon I	Room : Didon II	Room : Didon III	Room : Valetta
		MS 6-b : Spectral methods: new applications(*)	CT 4-a	CT 4-b	CT 4-c
		Organizer : Sidi-Mahmoud Kaber	Chair : Etienne Ahusborde	Chair : Zakaria Belhachmi	Chair : F. Auterie
	10H30-11H	A. Barbarino, S. Dulla, E. Mund, P. Ravetto <i>Spectral elements for 2D-1G neutron transport problems.</i>	A. Fabregat, L. U. Schrader, V. Wajda, C. Mavriplis <i>Optimal Forcing of Separated flow over a NACA 2415 Airfoil Using a Spectral Element Adjoint Formulation</i>	F. G. Gonzalez, M.N. Marcé, J. Sánchez Umbría <i>A comparison of high-order time integrators for highly supercritical thermal convection in rotating spherical shells</i>	M. Parsani, C. Lacor <i>Large eddy simulation of a muffler with high order spectral difference method</i>
	11H-11H30	J. A. Font <i>Computational fluid dynamics in relativistic astrophysics</i>	T. Christiansen, A. P. Engsig-Karup, H. B. Bingham, G. Ducrozet, P. Ferrant <i>Efficient Pseudo-Spectral Model for Free Surface Nonlinear Water Waves</i>	M. Fournie, B. Düring, A. Rigal <i>High order adi scheme for convection-diffusion equations with mixed derivative terms</i>	S. Chun <i>Introducing the method of moving frames to solve PDEs on curved surfaces: its applications to conservation laws and anisotropic diffusion equations</i>
	11H30-12H	D. Funaro <i>Interaction of electromagnetic solitary waves</i>	F. Sabetghadam, M. Badri, H. Kor <i>High-order Implementation of Immersed Boundary Conditions into the Fourier Pseudo-spectral Solutions of the Two-dimensional Incompressible Flows</i>	C. Baur, M. Schäfer <i>A fourth-order compact finite volume scheme for the convection-diffusion equation on non-cartesian grids</i>	P. Birken, G. Gassner, M. Haas, C.-D. Munz <i>A new preconditioner for DG schemes in 3D: ROBO-SGS</i>
	12H-12H30	(*) 40 min for each talk of MS 4	C. Bosshard, A. Dehbi, M. Deville, E. Leriche <i>Filtering and stabilisation for the Spectral Element Method</i>	R. Duboscq, X. Antoine, R. Marty <i>Time-splitting for the nonlinear Schrödinger equations with randomly perturbed potential. Application to Bose-Einstein Condensates</i>	
12H30-14H00	Lunch				
14H00-18H	Excursion : archaeological site & Museum of Carthage				
20H	Gala Dinner (Kobbet Ennhas Palace)				

Friday, June 29 – Morning

Plenary Lecture	9H30-10H30	<p><b>Dominik Schötzau</b></p> <p><i>hp-Version discontinuous Galerkin methods for elliptic problems in polyhedral domains</i></p> <p>Chair : Daniele Funaro</p> <p>Room : Didon III</p>
	10H30-11H	<p><b>Coffee Break</b></p>
Plenary Lecture	11H-12H	<p><b>Philippe LeFloch</b></p> <p><i>Asymptotic-Preserving finite volume methods for Nonlinear Hyperbolic Equations</i></p> <p>Chair : Sidi Mohmoud Kaber</p> <p>Room : Didon III</p>
	13H	<p><b>Lunch</b></p>