

**2nd International Conference on
“High Order Non-Oscillatory Methods for
Wave Propagation, Transport and Flow Problems”**

Trento, March 26-29, 2007

Preliminary Program

Timetable

	Monday, 26. 3. 2007	Tuesday, 27. 3. 2007	Wednesday, 28. 3. 2007	Thursday, 29. 3. 2007
9:00-10:00	ABGRALL	KROLL	KÄSER	TORO
10:00-10:30	QUINTINO	VAN SLINGERLAND	POMPONET-OLIVEIRA	UTZMANN
10:30-11:00	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
11:00-12:00	HESTHAVEN	BASSI	BAILLY	DUMBSER
12:00-14:00	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
14:00-14:30	BALSARA	HERMES	FERNANDEZ-NIETO	ENAUX
14:30-15:00		CADA	HIDALGO	KLUTH
15:00-15:30	ZANOTTI	GALLARDO-MOLINA	<i>Coffee Break</i>	<i>Coffee Break</i>
15:30-16:00	<i>Coffee Break</i>		FERRACINA	LÖRCHER
16:00-16:30	PARDO MILANÉS		RYAN	GASSNER
16:30-17:00	LOPEZ-GARCIA			
20:00		<i>Conference Dinner</i>		

Monday, 26. 3. 2007

- 09:00-10:00** Remi ABGRALL (Bordeaux) – Invited Lecture
A very high order oscillation free residual distribution scheme for hyperbolic problems”
- 10:00-10:30** Tiago QUINTINO (Von Karman Institute)
Residual distribution schemes for high-order quadrilateral elements
- 10:30-11:00** *Coffee break*
- 11:00-12:00** Jan HESTHAVEN (Brown University) – Invited lecture
Nodal DG-FEM for free surface flows using high-order Boussinesq approximations
- 12:00-14:00** *Lunch*
- 14:00-15:00** Dinshaw S. BALSARA (Notre Dame) – Invited lecture
RKDG and ADER-DG schemes with limiters for Euler and magnetohydrodynamic flows
- 15:00-15:30** Olindo ZANOTTI (Firenze)
ECHO: An Eulerian conservative high order scheme for general relativistic MHD
- 15:30-16:00** *Coffee break*
- 16:00-16:30** Alberto PARDO MILANÉS (Malaga)
Well-balanced MUSTA schemes for non-conservative hyperbolic systems and high order extensions
- 16:30-17:00** Juan-Antonio LOPEZ-GARCIA (Malaga)
Well-balanced high order extension of Godunov’s method for linear balance laws”

Tuesday, 27.3. 2007

- 09:00-10:00** Norbert KROLL (DLR Braunschweig) – Invited lecture
ADIGMA – A European project on the development of adaptive higher order variational methods for aerospace applications
- 10:00-10:30** Paulien VAN SLINGERLAND (Delft)
A robust higher-order variable- θ scheme for the advection diffusion equation on unstructured grids
- 10:30-11:00** *Coffee break*
- 11:00-12:00** Francesco BASSI (Bergamo) – Invited lecture
High-order discontinuous Galerkin solution of low- and high-Reynolds number compressible flows
- 12:00-14:00** *Lunch*
- 14:00-14:30** Viktor HERMES (Aachen)
Influence of the approximation order on unsteady transonic airfoil flow structures
- 14:30-15:00** Miroslav CADA (Zuerich)
Compact third order shock capturing limiter functions for non-linear hyperbolic PDEs
- 15:00-15:30** José Maria GALLARDO-MOLINA (Malaga)
A high-order finite volume scheme for shallow flows with bottom topography and dry areas
- 20:00** *Conference Dinner*

Wednesday, 28.3. 2007

- 09:00-10:00** Martin KÄSER (LMU, München) – Invited lecture
On the use of the high order ADER-DG methods in numerical seismology
- 10:00-10:30** Saulo POMPONET OLIVEIRA (OGS Trieste)
Optimal blended high-order operators for acoustic wave propagation
- 10:30-11:00** *Coffee break*
- 11:00-12:00** Christophe BAILLY (Lyon) – Invited lecture
High-order finite-difference schemes for the direct computation of aerodynamic noise based on compressible Large-Eddy simulations
- 12:00-14:00** *Lunch*
- 14:00-14:30** Enrique D. FERNANDEZ-NIETO (Sevilla)
High order finite volume methods for 2D non-conservative hyperbolic system over non-structured meshes. Application to shallow water equations and sediment transport
- 14:30-15:00** Arturo HIDALGO (Madrid)
High order ADER finite volume schemes for nonlinear diffusion-reaction equations
- 15:00-15:30** *Coffee break*
- 15:30-16:00** Luca FERRACINA (CWI Amsterdam)
TVD singly diagonally implicit Runge-Kutta methods
- 16:00-16:30** Juliet RYAN (Paris 13)
Numerical diffusion control of a space-time discontinuous Galerkin method

Thursday, 29.3. 2007

- 09:00-10:00** Eleuterio F. TORO (Trento)
On solvers for the high-order Riemann problem
- 10:00-10:30** Jens UTZMANN (IAG, Stuttgart)
Decompositions for aeroacoustic simulations in complex domains
- 10:30-11:00** *Coffee break*
- 11:00-12:00** Michael DUMBSER (Trento, IAG Stuttgart)
Quadrature-free WENO finite-volume schemes for nonlinear hyperbolic systems on unstructured triangular and tetrahedral meshes in two and three dimensions
- 12:00-14:00** *Lunch*
- 14:00-14:30** Cédric ENAUX (CEA, Paris)
A class of arbitrary high order explicit finite volume schemes for hyperbolic systems of conservation laws with stiff source terms
- 14:30-15:00** Gilles KLUTH (CEA, Paris)
High order lagrangian schemes for a non-linear hyperelastic model
- 15:00-15:30** *Coffee break*
- 15:30-16:00** Frieder LÖRCHER (IAG, Stuttgart)
The STE-DG scheme I. Hyperbolic conservation laws and time-accurate local time-stepping
- 16:00-16:30** Gregor GASSNER (IAG, Stuttgart)
The STE-DG scheme II. Compressible Navier-Stokes equations and hp-adaptation