

## HYP2004 Program (updated on September 8)

Sunday, September 12

Time	In the lobby
15:00	Registration desk will open
17:30	Welcome Party (All participants are welcome.)

Monday, September 13

Time	ROOM : Orbit Hall						
9:00	Opening						
	ROOM : Orbit Hall Chair : S. Kawashima						
10:00-10:45	Denis Serre Stability of planar waves in systems of conservation laws					[25]	
10:50-11:35	K. P. Haderl Reaction transport systems and applications to biology					[10]	
	Lunch						
	ROOM : Orbit Hall 1 Chair : S. Ei			ROOM : Orbit Hall 2 Chair : S. Nishibata			
13:30-14:00	Toshitaka Nagai Qualitative properties of solutions to a reaction-diffusion equation with advection modelling chemotaxis			[21]	Zhouping Xin Theory of Multi-Dimensional Shock Waves		[33]
14:05-14:35	Alexander Kurganov High-Resolution Adaptive Central-Upwind Schemes			[16]	Tatsuo Iguchi A long wave approximation for capillary-gravity waves and an effect of the bottom		[12]
	Coffee Break						
	ROOM : Orbit Hall 1	ROOM : Orbit Hall 2	ROOM A : Mizudori	ROOM B : Kouki	ROOM C : Ryokuju	ROOM D : Fuga	
	High Resolution Methods I Chair : S. Noelle	Kinetic Approach, Shock capturing Chair : G. Kreiss	Biomathematics I Chair : T. Nagai	Fluid dynamics I Chair : T.-P. Liu	Viscous conservation laws Chair : S. Jiang	Field equations Chair : N. Hayashi	
15:00-15:25	Sakai	Babovsky	Sakaguchi	Ambrose	Humpherys	Babin	
15:30-15:55	Torrilhon	Kunik	Saito	Jiu	Yamamoto	Stavrakakis	
16:00-16:25	Schroll	Qamar	Nakaoka	Enomoto	Nakamura	Kobayashi	
16:30-16:55	Yee	Xiaolin Li	Kon	Ogawa	Huang	Texier	
17:00-17:25	Gu		Tero	Kubo	Nishikawa	Toscani	

\*\* : the page number on the abstract booklet.

Tuesday, September 14

Time	ROOM : Orbit Hall Chair : R. Jeltsch					
9:00-9:45	Jian-Guo Liu <span style="float:right">[18]</span> Designing Stable and Efficient Numerical Methods for Fluid Dynamics Equations by Operator Decomposition					
	ROOM : Orbit Hall 1 Chair : K. P. Haderl			ROOM : Orbit Hall 2 Chair : B. Temple		
10:10-10:40	Shin-Ichiro Ei <span style="float:right">[8]</span> Dynamics of Turing patterns for reaction-diffusion systems in a cylindrical domain in 2D			Robin Young <span style="float:right">[34]</span> Isentropic Gas Dynamics with Arbitrary BV Data		
10:45-11:15	Christian Schmeiser <span style="float:right">[24]</span> Kinetic and Macroscopic Models of Cell Aggregation by Chemotaxis			Kevin Zumbrun <span style="float:right">[36]</span> Stability of undercompressive shock profiles		
11:20-11:50	Michael Fey <span style="float:right">[9]</span> Finite Volume Methods for Hyperbolic Conservation Laws with Constrains			Dan Marchesin <span style="float:right">[20]</span> Topological construction of nonclassical Riemann solutions		
	Lunch					
	ROOM : Orbit Hall 1	ROOM : Orbit Hall 2	ROOM A : Mizudori	ROOM B : Kouki	ROOM C : Ryokuju	ROOM D : Fuga
	Numerical Schemes I Chair : K. Sakai	Numerical Methods for Fluid Phenomena I Chair : N. Pogorelov	Biomathematics II Chair : C. Schmeiser	Fluid dynamics II Chair : K. Zumbrun	Shock Waves I Chair : P. G. Lefloch	Physical Models I Chair : L. Hsiao
13:30-13:55	Karabasov	Andreae	Sato	Kagei	Müller	Benzoni-Gavage
14:00-14:25	Váchal	Kuchařík	Kang	Tong Li	Brini	El
14:30-14:55	Aiso	Pelanti	Fucaí Li	Takahashi	Mailybaev	Jia
15:00-15:25	Abouziarov	Lukáčová-Medvid'ová	Inaba	Sakurai	Yachun Li	Hailiang Li
	Coffee Break					
	Numerics on Shock Wave Chair : H. Aiso	Numerical Methods for Fluid Phenomena II Chair : J. G. Liu	Galerkin, Spectral Methods Chair : P. Arminjon	Elastic equations Chair : D. Marchesin	Shock Waves II Chair : S. Bianchini	Physical Models II Chair : A. Jüngel
16:00-16:25	Siklosi	Appelö	Tanner	Kawashita	Zheng	Wang
16:30-16:55	Efrainsson	Romenski	Feistauer	Itou	Shimoji	Yong Li
17:00-17:25	Elling	Deiterding	Gottschlich-Müller	Zakiryanova	Grinfeld	Li Chen

Wednesday, September 15

Time	ROOM : Orbit Hall Chair : T.-P. Liu	
9:00-9:45	Blake Temple A Shock Wave Refinement of the Standard Model of Cosmology	[27]
9:50-10:35	Pierangelo Marcati Diffusive Singular Limits and 3-D Incompressible Navier–Stokes Equation	[19]
	ROOM : Orbit Hall 1 Chair : C. Schmeiser	ROOM : Orbit Hall 2 Chair : M. Fey
10:55-11:25	Ansgar Jüngel Quantum Hydrodynamic Equations for Semiconductors	[14] [11]
11:30-12:00	Gui-Qiang Chen Some Problems in the Theory of Multidimensional Hyperbolic Conservation Laws	[6] [23]
	Lunch	
13:30-18:00	Excursion (Tour buses leave in front of the venue.)	
	ROOM : Seiuu	
18:30-19:00	Special Talk (Chair : A. Matsumura) C. Dafermos	
19:00	Banquet	

Thursday, September 16

Time	ROOM : Orbit Hall Chair : Z. Xin				
9:00-9:45	Song Jiang <span style="float:right">[13]</span> Global existence for the Navier-Stokes equations of multidimensional compressible fluids with large data				
9:50-10:35	Philippe G. Lefloch <span style="float:right">[17]</span> Existence, uniqueness, and $L^1$ continuous dependence of entropy solutions to hyperbolic systems				
	ROOM : Orbit Hall 1 Chair : S. Ukai		ROOM : Orbit Hall 2 Chair : A. Kurganov		
11:00-11:30	Shih-Hsien Yu <span style="float:right">[35]</span> On positivity of Boltzmann shock Layer		Sebastian Noelle <span style="float:right">[22]</span> Well-balanced schemes of arbitrary order of accuracy for geophysical flows		
11:35-12:05	Weike Wang <span style="float:right">[31]</span> The pointwise estimates of solutions for general Navier-Stokes systems of conservation laws		Eitan Tadmor <span style="float:right">[26]</span> Twelve Examples of Entropy Stability Theory for Difference Approximations of Quasilinear Problems		
	Lunch				
	ROOM : Orbit Hall 1	ROOM : Orbit Hall 2	ROOM A : Mizudori	ROOM B : Kouki	ROOM C : Ryokuju
	Centered, Staggered Schemes I Chair : E. Tadmor	Numerical Methods and Modellings I Chair : C. Rohde	Conservation laws I Chair : A. Bressan	Astrophysics I Chair : T. Makino	Relaxation Model Chair : G.-Q. Chen
14:00-14:25	Popov	Dickopp	Warnecke	Klingenberg	Lien
14:30-14:55	Levy	Soulard	Yamazaki	Yoneda	Mei
15:00-15:25	Arminjon	Bao	Prasad	Narita	Ruggeri
	Coffee Break				
	Centered, Staggered Schemes II Chair : A. Kurganov	Numerical Methods and Modellings II Chair : Y. Takakura	Conservation laws II Chair : G. Warnecke	Astrophysics II Chair : T. Iguchi	Physical Models III Chair : P. Marcati
16:00-16:25	Rosenbaum	Katsaounis	Pogorelov	Scott	Alexeyeva
16:30-16:55	Rossmannith	Gustavsson	Takagi	Härterich	Miljanovic
17:00-17:25		Vignal	Lyng		Serna

Friday, September 17

Time	ROOM : Orbit Hall 1 Chair : J. G. Liu			ROOM : Orbit Hall 2 Chair : C. Dafermos	
9:00-9:30	Gunilla Kreiss Stability of strong shocks			Camillo De Lellis The chain rule for the divergence of vector fields and applications	
9:35-10:05	Tetu Makino Periodic solutions to the 1-dimensional compressible Euler equation with gravity			Alberto Bressan Hyperbolic Systems of Hamilton-Jacobi Equations	
	ROOM : Orbit Hall 1	ROOM : Orbit Hall 2	ROOM A : Mizudori	ROOM B : Kouki	ROOM C : Ryokuju
	High Resolution Methods II Chair : T. Hou	Numerical Schemes II Chair : H. Aiso	Conservation laws III Chair : F. Asakura	Hyperbolic equations Chair : G. Kreiss	Kinetic equations Chair : K. Nishihara
10:30-10:55	Simeoni	Russo	Fujino	Nakane	Jabin
11:00-11:25	Jabir	Bedrikovetsky	Ancona	Robles-Pérez	Zhao
11:30-11:55	Chertock	Conforto	Ostrov	Tsuge	Yamaguchi
	Lunch				
	High Resolution Methods III Chair : B. Sjogreen	Applications to Fluid Mechanics Chair : J. Ballmann	Conservation laws IV Chair : R. Young	Navier-Stokes equations Chair : W. Wang	
14:00-14:25	Helzel	Diehl	Puppo	Suzuki	
14:30-14:55	Titarev	Bryson	Thanh	Miura	
15:00-15:25	Takakura	Klöfkor			
	ROOM : Orbit Hall Chair : D. Serre				
15:50-16:35	Stefano Bianchini BV solutions for the Jin-Xin model				
16:40-17:25	Cédric Villani Recent trends in the study of convergence to equilibrium				

Monday, September 13

	ROOM : Orbit Hall 1	ROOM : Orbit Hall 2	ROOM A : Mizudori
	High Resolution Methods I Chair : S. Noelle	Kinetic Approach, Shock capturing Chair : G. Kreiss	Biomathematics I Chair : T. Nagai
15:00-15:25	Katsuhiro Sakai [175] A Numerical Scheme Based on Analytical Solutions for Lin- ear and Nonlinear Advection- Diffusion Equations	Hans Babovsky [56] A kinetic approach to the res- olution of flow patterns	Hideo Sakaguchi [174] A Numerical Method for Tracking the Level Set by Infinite Precision Numerical Simulation
15:30-15:55	M. Torrilhon [197] Pseudo-Convergence of MHD Finite Volume Schemes : Phe- nomenon and Solution Ap- proaches	Matthias Kunik [125] Analysis of a gas kinetic method for the relativistic Eu- ler equations	Yasuhisa Saito [173] A delay model for prey couter- attack
16:00-16:25	Achim Schroll [50] Logarithmic Reconstruction Methods for Conservation Laws	Shamsul Qamar [165] Kinetic Schemes for the Rel- ativistic Euler Equations and Hyperbolic Heat Conduction in Solids	Shinji Nakaoka [149] Qualitative properties for two connected chemostats model
16:30-16:55	H. C. Yee [211] Adaptive Numerical Dissipa- tion Control in High Order Methods for 3-D Ideal and Non-ideal MHD	Xiaolin Li [133] Enhancement of the Front Tracking Method for Compu- tation of Hyperbolic Conserva- tion Laws	Ryusuke Kon [121] Convex dominates concave: an exclusion principle in discrete- time Kolmogorov systems
17:00-17:25	Hongren Gu [93] On Numerical Solution of Hy- perbolic Proppant Transport Problem		Atsushi Tero [193] Modeling and simulations of the dynamics of true slime mold

	ROOM B : Kouki	ROOM C : Ryokuju	ROOM D : Fuga
	Fluid dynamics I Chair : T.-P. Liu	Viscous conservation laws Chair : S. Jiang	Field equations Chair : N. Hayashi
15:00-15:25	David Ambrose [44] Well-posedness of free-surface problems in 2D fluids	Jeffrey Humpherys [101] On the Stability of Viscous-Dispersive Fronts	A. V. Babin [55] Nonlinear Schrodinger equations for nonlinear Maxwell equations in periodic media
15:30-15:55	Quansen Jiu [107] On Strong Convergence in Vortex Sheets Problem for 3-D Axisymmetric Euler Equations	Yoshitaka Yamamoto [208] The Jeans instability for a one-dimensional model system of compressible viscous fluids	Nikos M. Stavrakakis [186] Existence and Energy Decay for a Dissipative Klein-Gordon-Schrodinger Type System
16:00-16:25	Yuko Enomoto [80] On a stability theorem of the Navier-Stokes equation in an exterior domain	Tohru Nakamura [146] Asymptotic behavior of spherically symmetric flow for heat-conductive fluid in a field of external forces	Takayuki Kobayashi [120] Interface Vanishing for Solutions to Maxwell and Stokes Systems
16:30-16:55	Masao Ogawa [155] Vortical flows of an incompressible ideal fluid with free boundary	Feimin Huang [100] Nonlinear stability of contact discontinuity for compressible Navier-Stokes equations	Benjamin Texier [194] Derivation of the Zakharov equations
17:00-17:25	Takayuki Kubo [123] On the Stokes and Navier-Stokes equations in a perturbed half-space	Masataka Nishikawa [152] Asymptotic stability of stationary waves for multidimensional viscous conservation laws in half space	G. Toscani [198] Hydrodynamic equations of weakly inelastic granular gases

Tuesday, September 14

	ROOM : Orbit Hall 1	ROOM : Orbit Hall 2	ROOM A : Mizudori
	Numerical Schemes I Chair : K. Sakai	Numerical Methods for Fluid Phenomena I Chair : N. Pogorelov	Biomathematics II Chair : C. Schmeiser
13:30-13:55	S. A. Karabasov <a href="#">114</a> Digital Transport Approach for Hyperbolic-type Problems	Sigrid Andrae <a href="#">46</a> Wave interactions in Immiscible Two Fluid Flows	Kazunori Sato <a href="#">177</a> Distributions of power-law behavior on the population with finite size
14:00-14:25	Pavel Váchal <a href="#">200</a> Numerical Methods for Euler Equations Using Fully Two-dimensional HLLEC Riemann Solver	Milan Kuchařík <a href="#">124</a> Conservative Remapping and ALE Methods for plasma Physics	Kyungkeun Kang <a href="#">113</a> Global existence of classical solutions for a hyperbolic chemotaxis model and its parabolic limit
14:30-14:55	Hideaki Aiso <a href="#">40</a> Instability Analysis in Conservative Difference Approximations for Compressible Euler Equations.	Marica Pelanti <a href="#">159</a> Numerical simulation of volcanic jets and plumes	Fucaí Li <a href="#">129</a> Study on some nonlocal parabolic equations and systems arising in Applied Sciences
15:00-15:25	Moustafa Abouziarov <a href="#">38</a> An Application of Retroactive Characteristic Method to Conservative Scheme for Structure Problems (Elastic-Plastic Flows)	Mária Lukáčová-Medviďová <a href="#">137</a> Numerical modelling of shallow flows including bottom topography and magnetodynamic effects	Hisashi Inaba <a href="#">102</a> Threshold and stability results for an age-duration-structured population model for HIV/AIDS epidemic
	Numerics on Shock Wave Chair : H. Aiso	Numerical Methods for Fluid Phenomena II Chair : J. G. Liu	Galerkin, Spectral Methods Chair : P. Arminjon
16:00-16:25	Malin Siklosi <a href="#">182</a> Numerical Study of Trajectories in Phase Space for Discrete Shock Profiles	D. Appelö <a href="#">48</a> Energy Estimates for Perfectly Matched Layers for the Linearized Euler Equations	Jared Tanner <a href="#">192</a> Postprocessing Methods for Spectral Viscosity Solutions
16:30-16:55	Gunilla Efrainsson <a href="#">77</a> A Numerical Study of the Introduction and Propagation of a 2-D Vortex	E. Romenski <a href="#">167</a> Conservative Hyperbolic Model for Two-Phase Flow and One-Dimensional Waves	Miloslav Feistauer <a href="#">82</a> On a Semi-Implicit Discontinuous Galerkin FEM for the Non-stationary Compressible Euler Equations
17:00-17:25	Volker Elling <a href="#">79</a> Nonuniqueness of entropy solutions and the carbuncle phenomenon	Ralf Deiterding <a href="#">73</a> High-resolution simulation of realistic detonation structures	Birgit Gottschlich-Müller Adaptive Discontinuous Galerkin Methods based on Biorthogonal Multiwavelets for Conservation Laws <a href="#">90</a>

	ROOM B : Kouki	ROOM C : Ryokuju	ROOM D : Fuga
	Fluid dynamics II Chair : K. Zumbrun	Shock Waves I Chair : P. G. Lefloch	Physical Models I Chair : L. Hsiao
13:30-13:55	Yoshiyuki Kagei <a href="#">[112]</a> Asymptotic behavior of solutions to the compressible Navier-Stokes equations on the half space	Siegfried Müller <a href="#">[141]</a> Riemann Problem for the Euler Equations with Non-Convex Equation of State including Phase Transition	Sylvie Benzoni-Gavage <a href="#">[61]</a> Structure and well-posedness of Korteweg models for fluids exhibiting phase changes
14:00-14:25	Tong Li <a href="#">[132]</a> Stability of detonation waves in two-step chain-branching reaction models	Francesca Brini <a href="#">[62]</a> On the Riemann Problem in Extended Thermodynamics	Gennady El <a href="#">[78]</a> Unsteady dispersive shock transition in non-integrable systems
14:30-14:55	Shuji Takahashi <a href="#">[190]</a> Existence Theorem for the Point Source Blast Wave Equation	Alexei A. Mailybaev <a href="#">[143]</a> Dual-family viscous shock waves in n conservation laws	Yueling Jia <a href="#">[106]</a> Large Time Behavior of Solutions of Quantum Hydrodynamic Model
15:00-15:25	A. Sakurai <a href="#">[176]</a> A weak solution of point source blast wave problem	Yachun Li <a href="#">[134]</a> Global Entropy Solutions to the Relativistic Euler Equations	Hailiang Li <a href="#">[131]</a> On Multi-dimensional Quantum Hydrodynamics : Modelling, Well-posedness and Asymptotics
	Elastic equations Chair : D. Marchesin	Shock Waves II Chair : S. Bianchini	Physical Models II Chair : A. Jüngel
16:00-16:25	Mishio Kawashita <a href="#">[117]</a> Scattering Theory for the Elastic Wave Equations in Perturbed Half-spaces	Yuxi Zheng <a href="#">[216]</a> A global solution to a two-dimensional Riemann problem involving shocks as free boundaries	Shu Wang <a href="#">[205]</a> Quasineutral Limit of Euler-Poisson System with and without Viscosity
16:30-16:55	Hikomichi Itou <a href="#">[103]</a> Existence of a weak solution in an infinite viscoelastic strip with a semi-infinite crack	Sadao Shimoji <a href="#">[181]</a> Dynamics of a Purely Non-linear One-Dimensional Elastic Body	Yong Li <a href="#">[135]</a> Study on the Multi-dimensional Nonisentropic Euler-Poisson Equations
17:00-17:25	G. K. Zakiryanova <a href="#">[214]</a> Generalized solutions of boundary value problems for second order hyperbolic systems	Michael A. Grinfeld <a href="#">[92]</a> PDE of Failure Wave Propagation Based on the Model of Two-State Substance	Li Chen <a href="#">[64]</a> Analysis and Numerical Simulation of the Generalized Drift Diffusion Model in Semiconductor Science

Thursday, September 16

	ROOM : Orbit Hall 1	ROOM : Orbit Hall 2	ROOM A : Mizudori
	Centered, Staggered Schemes I Chair : E. Tadmor	Numerical Methods and Modellings I Chair : C. Rohde	Conservation laws I Chair : A. Bressan
14:00-14:25	Bojan Popov <a href="#">[161]</a> Numerical stability, convergence and error estimates for non-oscillatory schemes	Christian Dickopp <a href="#">[75]</a> A Homogeneous Model for Two-Phase Flow Through Injection Nozzles	Gerald Warnecke <a href="#">[206]</a> On the Solution to the Riemann Problem for a Class of Non-conservative Systems
14:30-14:55	Doron Levy <a href="#">[128]</a> High-Order Godunov-type Schemes for Hamilton-Jacobi Equations	O. Soulard <a href="#">[185]</a> Hyperbolic Stochastic Partial Differential Equations as a tool for solving the Fokker-Planck PDF transport equation of turbulent reactive scalars	Mitsuru Yamazaki <a href="#">[209]</a> Viscous shock profile for $2 \times 2$ systems of hyperbolic conservation laws with an umbilic point
15:00-15:25	P. Arminjon <a href="#">[49]</a> Central Finite Volume Methods with Constrained Transport Divergence Treatment for Ideal MHD	Weizhu Bao <a href="#">[57]</a> Numerical Simulation for Bose-Einstein Condensation	Phoolan Prasad <a href="#">[162]</a> Kinematical Conservation Laws, Ray Theories and Applications
	Centered, Staggered Schemes II Chair : A. Kurganov	Numerical Methods and Modellings II Chair : Y. Takakura	Conservation laws II Chair : G. Warnecke
16:00-16:25	Wolfram Rosenbaum <a href="#">[168]</a> Adaptive staggered grids in 3D	Th. Katsaounis <a href="#">[116]</a> Adaptive Finite Element Methods for computing Shear Band formations	N. V. Pogorelov <a href="#">[160]</a> Nonevolutionary MHD Shocks : A Critical Survey
16:30-16:55	James A. Rossmannith <a href="#">[169]</a> A wave propagation method for relativistic hydrodynamics	Katarina Gustavsson <a href="#">[94]</a> Study of a Hyperbolic Model Problem	Satoru Takagi <a href="#">[189]</a> On the Existence of Renormalized Dissipative Solutions via Relaxation for Conservation Laws
17:00-17:25		M. H. Vignal <a href="#">[203]</a> Modelization and numerical simulations of plasma expansion in vacuum	G. Lyng <a href="#">[140]</a> Low-Frequency Stability of Multidimensional Viscous and Inviscid Planar Detonation Waves

	ROOM B : Kouki	ROOM C : Ryokuju
	Astrophysics I Chair : T. Makino	Relaxation Model Chair : G.-Q. Chen
14:00-14:25	Christian Klingenberg <a href="#">119</a> Mathematical modelling and numerical simulations for astrophysical accretion discs	Wen-Ching Lien <a href="#">136</a> Time-Asymptotic Interactions of Boltzmann Shock Layers in the Presence of Boundary
14:30-14:55	Gen Yoneda <a href="#">212</a> Formulation problem of the Einstein equation for numerical simulations	Ming Mei <a href="#">144</a> Phase Transitions in a Relaxation Model of Mixed Type with Periodic Boundary Condition
15:00-15:25	Makoto Narita <a href="#">150</a> On a wave map in string theory	Tommaso Ruggeri <a href="#">170</a> Entropy Principle and Global Existence of Smooth Solutions in Extended Thermodynamics
	Astrophysics II Chair : T. Iguchi	Physical Models III Chair : P. Marcati
16:00-16:25	Michael B. Scott <a href="#">178</a> Lightlike Shock Waves in General Relativity	L. A. Alexeyeva <a href="#">42</a> Time-Dependent Boundary Value Problems for Maxwell Equations and their Generalized Solutions
16:30-16:55	Jörg Härterich <a href="#">96</a> Asymptotic Behavior of Spatially Inhomogeneous Balance Laws	Vera Miljanovic <a href="#">202</a> Convergence to Equilibrium for the Linearized Cometary Flow Equation
17:00-17:25		Susana Serna <a href="#">179</a> Clustering induced by blast waves in inelastic granular gases

Friday, September 17

	ROOM : Orbit Hall 1	ROOM : Orbit Hall 2	ROOM A : Mizudori
	High Resolution Methods II Chair : T. Hou	Numerical Schemes II Chair : H. Aiso	Conservation laws III Chair : F. Asakura
10:30-10:55	Chiara Simeoni <a href="#">[183]</a> Relaxation methods and finite element schemes for the incompressible Navier-Stokes and Euler equations	Giovanni Russo <a href="#">[171]</a> Staggered Central Finite Difference Schemes for Balance Laws	Naoki Fujino <a href="#">[83]</a> Conservation Laws with Vanishing Diffusion and Dispersion
11:00-11:25	Asie Kemal Jabir <a href="#">[105]</a> Higher Order Finite Volume Scheme for Multiphase Multicomponent Flow Through Porous Media	Pavel G. Bedrikovetsky <a href="#">[58]</a> Splitting of Hyperbolic Systems for Two-Phase Flow in Porous Media	Fabio Ancona <a href="#">[45]</a> Vanishing viscosity solutions of hyperbolic systems with possibly characteristic boundary
11:30-11:55	Alina Chertock <a href="#">[65]</a> Finite-Volume-Particle Methods for Modeling the Transport of Pollutant in Shallow Water	Fiammetta Conforto <a href="#">[70]</a> On the Riemann problem in gas mixtures undergoing different bimolecular reactions	Dan Ostrov <a href="#">[156]</a> An Example of Nonuniqueness for the Viscous Limit of a Non-strictly Hyperbolic System of Equations
	High Resolution Methods III Chair : B. Sjogreen	Applications to Fluid Mechanics Chair : J. Ballmann	Conservation laws IV Chair : R. Young
14:00-14:25	Christiane Helzel <a href="#">[97]</a> A high-resolution rotated grid method for conservation laws with embedded geometries	Dennis Diehl <a href="#">[76]</a> Numerical Simulation of Liquid-Vapor Flows with Phase Change	Gabriella Puppo <a href="#">[164]</a> The Entropy Indicator for Semidiscrete Schemes for Conservation Laws
14:30-14:55	V. A. Titarev <a href="#">[196]</a> ADER Schemes for Multidimensional Nonlinear Hyperbolic Conservation Laws	Steve Bryson <a href="#">[63]</a> A Well-Balanced Central-Upwind Scheme for the 2D Shallow Water Equations on Triangular Meshes	Mai Duc Thanh <a href="#">[195]</a> On the Model of a Compressible Flow in a Nozzle : Analysis and Numerical Methods
15:00-15:25	Yoko Takakura <a href="#">[191]</a> Various Forms of ADER schemes for Nonlinear Conservation Laws with Source Terms and Their Verification	Robert Klöforn <a href="#">[118]</a> Modelling and simulation of PEM fuel cells	

	ROOM B : Kouki	ROOM C : Ryokuju
	Hyperbolic equations Chair : G. Kreiss	Kinetic equations Chair : K. Nishihara
10:30-10:55	Kazuaki Nakane <a href="#">147</a> The asymptotic behavior of the free boundary governed by a hyperbolic equation	Pierre-Emmanuel Jabin <a href="#">104</a> A kinetic approach to the homogenization of transport equations
11:00-11:25	Aurelino M. Robles-Pérez <a href="#">166</a> Maximum principles in a certain hyperbolic equation	Huijiang Zhao <a href="#">215</a> Some recent results on the Boltzmann equation with external force
11:30-11:55	Naoki Tsuge <a href="#">199</a> Spherically symmetric flow of the compressible Euler equations	Norikazu Yamaguchi <a href="#">207</a> On the existence of global strong solution to the micropolar fluid system in three dimensional bounded and exterior domains
	Navier-Stokes equations Chair : W. Wang	
14:00-14:25	Tomoyuki Suzuki <a href="#">188</a> Interior regularity criterion via pressure on weak solutions to the Navier-Stokes equations	
14:30-14:55	Hideyuki Miura <a href="#">145</a> On the regularizing rate estimates of Koch-Tataru's solution to the Navier-Stokes equations	
15:00-15:25		