

Brown University
Providence, RI
May 12-14 2011

Conference on Hyperbolic Conservation Laws and Continuum Mechanics

In Honor of Constantine Dafermos' 70th Birthday

Schedule

Barus & Holley, Room 190

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Brown University
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Thursday – May 12, 2011
Barus & Holley, Room 190

9:00 – 9:50	Marshall Slemrod - University of Wisconsin-Madison Entropy and Isometric Embedding
10:00-10:50	Konstantina Trivisa- University of Maryland Dissipation, Diffusion & Entropy in the Balance Laws of Continuum Physics
11:00-11:30	Break
11:30-12:20	Gui-Qiang Chen- University of Oxford Multidimensional Discontinuities and Free Boundary Problems in Hyperbolic Conservation Laws
12:30-2:00	Lunch
2:00-2:50	Tai-Ping Liu- Academia Sinica Conservation Laws with Physical Viscosity
3:00-3:50	Stefano Bianchini – SISSA SBV Regularity for General Hyperbolic System of Conservation Laws
4:00-4:30	Break
4:30-5:20	Stuart Antman- University of Maryland Quasilinear Systems of Visco-Elasticity
5:30 – 6:20	Camillo De Lellis – University of Zurich Oscillations and Admissible Solutions of Hyperbolic Systems I Conservation Laws

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Friday – May 13, 2011
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9:00 – 9:50	Andrew Majda – Courant Institute Mathematical Strategies for Real Time Filtering of Turbulence Dynamical Systems
10:00-10:50	Denis Serre – ENS de Lyon The Numerical Measure of a Complex Matrix. Lacunas of Hyperbolic Differential Operators
11:00-11:30	Break
11:30-12:20	Benoit Perthame – University Pierre et Marie Curie Darwinian Evolution and the constrained Hamilton-Jacobi Equation
12:30-2:00	Lunch
2:00-2:50	Panagiotis Souganidis – University of Texas at Austin Scalar Conservation Laws with “Bad” Time Dependence
3:00-3:50	Claude Bardos – University of Paris Diderot About Incompressible Euler Limit of Solutions of the Navier-Stokes and Boltzmann Equation of Boundary Effects
4:00-4:30	Break
4:30-5:20	Barbara Keyfitz –Ohio State A New Look at Singular Shocks
6:00	Banquet – Brown Faculty Club – One Magee Street 6:00pm-6:45pm Reception 6:45pm-7:45pm Buffet 7:45pm-8:45pm Speaking Program

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Saturday – May 14, 2011
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9:00 – 9:50	Alberto Bressan – Penn State Non-classical Control Problems and Stackelberg Feedback Equilibria
10:00-10:50	Rustum Choksi – McGill University Asymptotic Regions and Global Minimization for a Variational Problem with Long-Range Interactions
11:00-11:30	Break
11:30-12:20	Tommaso Ruggeri – University of Bologna Can Constitutive Relations be Represented by Non-local Equations?
12:30-2:00	Lunch
2:00-2:50	Shih-Hsien Yu – University of Singapore Construction of Green's Functions for the Boltzmann Equations
3:00-3:50	Hermano Frid – IMPA, Brazil Remarks on the Theory of the (Extended) Divergence-measure Fields
4:00-4:30	Break
4:30-5:20	Athanasios Tzavaras – University of Crete On the Structure and Properties of the Equations of Nonlinear Elasticity