

MONDAY, SEPTEMBER 3, 2007

9:00-9:45 **OPENING CEREMONY**

PLENARY SESSIONS

Hall A

SESSION 1

Chairman: Jean-André Marti

9:50-10:30 **Hikosaburo Komatsu**, University of Tokyo

Heaviside's theory interpreted by Laplace ultradistributions

10:30-11:00 **Coffee break**

SESSION 2

Chairman: Michael Oberguggenberger

11:00-11:40 **Jean-François Colombeau**, University of Grenoble

Nonlinear generalized functions and the Heisenberg-Pauli calculations

11:50-12:30 **Michael Kunzinger**, University of Vienna

Recent progress in special Colombeau algebras – geometry, topology, and algebra

13:00-14:00 **Lunch**

MONDAY, SEPTEMBER 3, 2007
SECTION SESSIONS

SECTION A

Hall A

SESSION 1

Chairman: Stevan Pilipović

15:00-15:30 **Roland Steinbauer**, University of Vienna

Towards tensor valued Colombeau functions

15:35-16:05 **Michael Grosser**, University of Vienna

Tensor valued Colombeau functions on manifolds

16:10-16:40 **Claudia Garetto**, University of Innsbruck

*Closed graph and open mapping theorems for topological
 \tilde{C} -modules and applications*

16:45-17:00 **Eberhard Mayerhofer**, University of Vienna

*Causality in generalized space-times and the dominant energy
condition*

17:00-17:15 **Coffee break**

MONDAY, SEPTEMBER 3, 2007

SECTION A

Hall A

SESSION 2

Chairman: Michael Kunzinger

17:15-17:45 **Vincent Valmorin**, University of Antilles-Guyane, Pointe-à-Pitre
On Schwartz kernel theorem in algebras of generalized functions

17:50-18:20 **Antoine Delcroix**, University of Antilles-Guyane, Pointe-à-Pitre
Kernel theorems in spaces of tempered generalized functions

18:25-18:40 **Sanja Konjik**, University of Novi Sad
Generalized calculus of variations and Nöther's theorem

18:40-18:55 **Jelena Aleksić**, University of Novi Sad
Equivalence between Colombeau's approximate solutions and measure valued solutions to conservation laws

19:00 **Dinner**

MONDAY, SEPTEMBER 3, 2007

SECTION B

Hall B

SESSION 1

Chairman: Józef Tabor

15:00-15:30 **Rudolf Gorenflo**, Free University of Berlin

Distributed order pseudo-differential equations: Cauchy and multi-point problems

15:35-16:05 **Francesco Mainardi**, University of Bologna

Stochastic processes to model anomalous diffusion in physics

16:10-16:40 **Irina Melnikova**, Ural State University, Ekaterinburg

Distribution spaces related to abstract stochastic problems

16:45-17:00 **Anna Karczewska**, University of Zielona Góra

Regularity of solutions to stochastic Volterra equations

17:00-17:15 **Coffee break**

MONDAY, SEPTEMBER 3, 2007

SECTION B

Hall B

SESSION 2

Chairman: Michael Langenbruch

17:15-17:45 **Vladimir M. Shelkovich**, University of St. Petersburg

Strong singular solutions to systems of conservation laws: shocks, δ -, δ' -, and $\delta^{(n)}$ -shocks ($n=2,3,\dots$)

17:50-18:20 **Alexander Smirnov**, Lebedev Physical Institute, Moscow

Fourier transformation of Sato's hyperfunctions

18:25-18:40 **Ljubica Oparnica**, Serbian Academy of Science & Art, Belgrade

Semilinear ordinary differential equation coupled with distributed order fractional differential equation

18:40-18:55 **Dušan Rakić**, University of Novi Sad

Homogeneous distributions in D'_{L^p}

19:00 **Dinner**