Session 8
GENERALIZED FUNCTIONS

Organisers: M. Oberguggenberger (Innsbruck), S. Pilipović (Novi Sad)

Room

August 05 / 2013

Chairs: Oberguggenberger/Pilipović

14:30 - 14:35
Opening of Session

14:35 - 15:00
Vickers, J.   Smoothing Operators, Colombeau Algebras and Generalised Differential Geometry

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15:05 - 15:25
Sämann, C.   The globally hyperbolic splitting in non-smooth Lorentzian manifolds

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15:30 - 16:00   Coffe break

Chair: Garetto

16:00 - 16:20
Scarpalézos, D. Ideals in the ring of generalized constants with continuous parametrisation

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16:25 - 16:45
Giordano, P.   Generalized functions as a category of smooth set-theoretical maps

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16:50 - 17:10
Nigsch, E.   The functional analytic foundation of Colombeau algebras

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Chair: Kunzinger

17:15 - 17:35
Rajter-Ćirić, D. Fractional derivatives of Colombeau generalized stochastic processes defined on R+

17:40 - 18:00
Erlacher, E.   Ordinary differential equations in algebras of generalized functions

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18:05 - 18:25
Saidi, T.   Colombeau algebras of generalized functions based on Gelfand-Shilov spaces

Chair: Pilipović

12:15 - 12:40
Vindas, J.   General Stieltjes moment problems for rapidly decreasing smooth functions

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12:45 - 13:05
Rakić, D.   L-weighted Hölder spaces

13:05 - 14:30   Lunch break

Chair: Oberguggenberger

14:30 - 14:55
Boyadzhiev, G. Geometrical Approach to Modeling the Earth Crust and Upper Mantle

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15:00 - 15:20
Kamiński, A.   On the existence and growth of the convolution

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15:25 - 15:45
Mincheva-Kamińska, S. On various classes of approximate units and the convolution of generalized functions

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15:45 - 16:30   Coffee break and Mikusiński exhibition

Chair: Kunzinger

16:30 - 16:50
Kmit, I. Robustness of Exponential Dichotomies of Boundary-Value Problems for General First-Order Hyperbolic Systems

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16:55 - 17:15
Alexeyeva, L.   Shock thermoelastic waves as generalized solutions of thermoelasticy equations

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17:20 - 17:40
Zakiryanova, G. Generalized and fundamental solutions of M.Biot equations for moving loads

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17:45 - 18:05
Khaladi, M. T.   Linear Differential Equations in the Algebra of Almost Periodic Generalized Functions

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18:10 - 18:30
Kostadinova, S. Ridgelet transform and asymptotic behavior of distributions

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Joint Day with Session 17, Pseudo-differential operators

Chair: Vickers

12:15 - 12:35
Kunzinger, M.   Geometric regularization on Riemannian and Lorentzian manifolds
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12:40 - 13:00
Hörmann, G.   Generalized functions and basic symplectic geometry
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13:05 - 13:25
Vernaeve, H.   Topological properties of regular generalized function algebras
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13:25 - 14:30   Lunch break

Chair: Ruzhansky

14:30 - 15:00
Wong, M. W.   Pseudo-Differential Operators for Weyl Transforms
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15:00 - 15:30
Toft, J.   Modulation Spaces, Harmonic Analysis and Pseudo-Differential Operators
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15:30 - 16:00   Coffee break

Chair: Ruzhansky

15:00 - 16:30
Rodino, L.   Ancestors and Birth of Pseudo-Differential Operators
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16:35 - 16:55
Pilipović, S.   Regularity properties of generalized functions
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17:00 - 17:20
Garetto, C.   Strictly and weakly hyperbolic Cauchy problems with non-regular coefficients
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17:25 - 17:55
Oberguggenberger, M. Microlocal analysis in Colombeau algebras
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Chair: Rajter

12:15 - 12:40
Melnikova, I.   Distribution Spaces Related to Abstract Stochastic Problems
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12:45 - 13:05
Stoeva, D.   Frames, General Frechet frames, and series representations
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13:05 - 14:30   Lunch break

Chair: Vindas

14:30 - 14:50
Sorek, S.   On Florencio-Paúl-Virués diagonal theorem

14:55 - 15:15
Lecke, A.   Gelfand-Shilov type spaces through Hermite expansions
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15:20 - 15:40
Antonić, N.   H–distributions: an extension of H-measures

15:40 - 16:00   Coffee break

Chairs: Oberguggenberger/Pilipović

16:00 - 16:20
Wurzer, L.   The Stochastic Wave Equation with an Interval Valued Parameter
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16:25 - 16:45
Levajković, T.   Chaos expansion method for the Skorokhod integral equation
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