

## EWM 16 th General Meeting

### Invited talks

Tamar Ziegler, EMS Lecturer (3 lectures) *Dynamics and prime solutions to linear equations*

Karin Baur : *Cluster algebras and triangulations of surfaces*

Tatiana Eisner: *Ergodic theorems*

Michela Procesi: *KAM theory and quasi-periodic solutions for the reversible derivative wave equation*

Catharina Stroppel: *Categorification, what ? why ? how ?*

Wei Min Wang: *Nonlinear Fourier series and applications to PDE*

### Contributed talks

**Monday September 2nd, 2013, 16.15 - 17.45**

#### **1. Parallel Session: Logic, Number Theory, Measure and Integration**

16.45 - 17.15 Anca Croitoru, University "Al.I. Cuza" Iasi, Romania. Considerations on Gould integrable multi-functions

17.15 - 17.45 Selin (Inag) Cenberci, Necmettin Erbakan University, Turkey. On the Diophantine equation  $4^x + p^y = z^{2n}$

#### **2. Parallel session: Probability, Differential Equations and Numerical Analysis**

16.15 - 16.45 Alexandra Tkacenko, State University of Moldova, Fuzzy Cost Multiple Criteria Transportation Problem.

16.45 - 17.15 Tatiana Vasilyeva, Volgograd State University, Russia. Multi-implicit SD-methods for ODEs stiff systems

17.15 - 17.45 Darya Apushkinskaya, Universität des Saarlandes, Germany. Regularity properties of solutions to hysteresis-type problems.

**Tuesday September 3rd, 2013, 11.15 - 13.15**

#### **1. Parallel session: Differential Equations and Numerical Analysis**

11.15 - 11.45 Fioralba Cakoni, University of Delaware, U.S.A. Transmission Eigenvalues in Inverse Scattering Theory

11.45 - 12.15 Sanja Konjik, University of Novi Sad, Serbia. Fractional generalizations of the wave equation

12.15 - 12.45 Elena Resmerita, Alpen-Adria University of Klagenfurt, Austria. Convergence rates for regularization of ill-posed problems in Banach spaces

12.45 - 13.15 Anju Saini, Indian Institute of Technology Roorkee, India. Two-dimensional model of pulsatile flow of a dusty fluid through a tube with axisymmetric constriction

#### **2. Parallel session: Geometry and Dynamical Systems**

11.15 - 11.45 Ilka Agricola, Philipps-Universität Marburg, Germany. G-structures on Riemannian manifolds  
11.45 - 12.15 Manjusha Tarafdar, University of Calcutta, India. On Almost Hermitian Manifold  
12.15 - 12.45 Victoria Grushkovskaya, Institute of Applied Mathematics and Mechanics of the National Academy of Sciences, Ukraine. Attractors of nonlinear dynamical systems with a weakly monotonic measure  
12.45 - 13.15 Katarina Kukic, University of Belgrade, Serbia. Discriminantly separable polynomials and their applications

### **3. Parallel session: Algebra and Algebraic Geometry**

11.15 - 11.45 Yukari Ito, Nagoya University, Japan. Crepant resolution via quiver representations and G-Hilbert schemes  
11.45 - 12.15 Xueyu Luo, Nagoya University, Japan. Ice Quivers with Potentials associated with Triangulations and Cohen-Macaulay Modules over Orders  
12.15 - 12.45 Hyunmi Park, Nagoya University, Japan. Enumeration of Cuts in Planar Quivers with Potential with Pyramid Shape

## **Thursday, September 5th, 2013, 11.15 - 13.15**

### **1. Parallel Session: Differential Equations and Numerical Analysis**

11.15 - 11.45 Florica Ioana Dragomirescu, University "Politehnica" of Timisoara, Romania. POD analysis in swirling flows problems  
11.45 - 12.15 Carina Geldhauser, Bonn University, Germany. Convergence of a Semidiscrete Scheme For A Forward-Backward Parabolic Equation  
12.15 - 12.45 Elena Gavrilova, St. Ivan Rilski University of Mining and Geology, Sofia, Bulgaria. Coupled Frequencies of a liquid in a circular cylindrical container with an annular elastic plate in the bottom

### **2. Parallel session: Harmonic Analysis, Operator Theory**

11.15 - 11.45 Sanja Kostadinova, Ss. Cyril and Methodius University – Skopje, Macedonia. S-Asymptotic Behavior Of Distributions and The Short-Time Fourier Transform  
11.45 - 12.15 Dana Bereanu, Military Technical Academy and IMAR, Romania. Periodic solutions of singular perturbations of the singular  $\varphi$ -Laplacian operator  
12.15 - 12.45 Anna Grybos, AGH University of Science and Technology, Poland. Approximation of the inverse frame operator for Gabor frames.

### **3. Group and Geometric Group Theory, Operators on Graphs**

11.15 - 11.45 Violeta Manevska, University "St. Kliment Ohridski" – Bitola, Macedonia. The Finite Automata and Their Generalization  
11.45 - 12.15 Petra Schwer, University of Muenster, Germany. Simplicial non-positive curvature and group actions  
12.15 - 12.45 Nabila Torki-Hamza, University of Kairouan - Tunisia, On Schroedinger operators on graphs