

# P R O G R A M M E

08 June, 2012

08:15 - 09:15 Breakfast

09:30 - 10:10 Registration

## Morning Session

Chairman: **Andrei Ludu**

10:10 - 10:40 Opening

10:40 - 11:10 Coffee

11:10 - 11:50 **Peter J. Olver**

Lie Groups, Differential Equations, and Moving Frames I

11:50 - 12:30 **Gaetano Vilasi**

The Uncertainty Principle in General Relativity

12:30 - 13:30 Lunch

## Afternoon Session

Chairman: **Gaetano Vilasi**

16:00 - 16:40 **Armen Sergeev**

Harmonic Spheres and Yang--Mills Fields I

16:40 - 17:10 **Ciprian Sorin Acatrinei**

Discreteness, Nonlocality and Causality in  
Noncommutative Field Theory

17:10 - 17:40 Coffee

17:40 - 18:10 **Antonio Siqueira**

Conformal Form of Pseudo-Riemannian Metrics by  
Normal Coordinate Transformations

18:10 - 18:40 **Vasyl Kovalchuk**

Parametric Representations of Waves Propagation  
in Transmission Bands of Periodic Media

19:30 Welcome Dinner

# P R O G R A M M E

09 June, 2012

08:15 - 09:15 Breakfast

## Morning Session

Chairman: Armen Sergeev

09:30 - 10:10 Peter J. Olver

Lie Groups, Differential Equations, and Moving Frames II

10:10 - 10:40 Valeri Frolov

Spinoptics in Gravitational Field

10:50 - 11:20 Coffee

11:10 - 11:50 Andrei Ludu

Topology and Geometry of Mixing of Fluids

12:00 - 12:30 Anatol Odziejewicz

Groupoids and Inverse Semigroup Associated to  $W^*$ -algebras

12:45 - 13:30 Lunch

## Afternoon Session

Chairman: Vladimir S. Gerdjikov

16:00 - 16:40 Armen Sergeev

Harmonic Spheres and Yang--Mills Fields II

16:40 - 17:10 Stefan C. Mancas

2D Solitons in Dissipative Media

17:10 - 17:40 Coffee

17:40 - 18:10 Dorel Fetcu

Simons Type Formulas and Applications for PMC  
Submanifolds in Product Spaces

18:10 - 18:40 Mariana Hadzhilazova

A Relation Between Fluid Membranes and Motions of  
Planar Curves

18:45 Dinner

# P R O G R A M M E

11 June, 2011

08:15 - 09:15 Breakfast

## Morning Session

Chairman: Valeri Frolov

09:30 - 10:10 **Peter J. Olver**

Lie Groups, Differential Equations, and Moving Frames III

10:10 - 10:40 **Ivailo Mladenov**

Unduloid-Like Equilibrium Shapes of Single-Wall  
Carbon Nanotubes Under Pressure

10:40 - 11:10 Coffee

11:10 - 11:50 **Jan J. Slawianowski**

The Dynamics of the Field of Linear Frames and  
Gauge Gravitation

11:50 - 12:30 **Armen Sergeev**

Harmonic Spheres and Yang--Mills Fields III

12:30 - 13:30 Lunch

## Afternoon Session

Chairman: Peter J. Olver

15:30 - 16:00 **Oleksandr Chvartatskyi**

Integro-differential Lax Representations and  
Their Matrix Generalizations

16:00 - 16:40 **Armen Sergeev**

Harmonic Spheres and Yang--Mills Fields IV

16:40 - 17:10 **Akira Yoshioka**

Star Products -Formal and Nonformal-

17:10 - 17:40 Coffee

17:40 - 18:10 **Tomoyo Kanazawa**

Green's Function, Wave Function and Wigner Function of the  
MIC-Kepler Problem

18:10 - 18:40 **Michael Deutsch**

A Mobius Geometric Interpretation of the Lawson  
Correspondence for Minimal Surfaces

18:45 Dinner

# P R O G R A M M E

12 June, 2012

08:15 - 09:15 Breakfast

## Morning Session

Chairman: Mayeul Arminjon

09:30 - 10:10 **Peter J. Olver**

Lie Groups, Differential Equations, and Moving Frames IV

10:10 - 10:40 **Georgi Grahovski**

On a Class of Three-wave Resonant Interaction Equations

10:40 - 11:10 Coffee

11:10 - 11:50 **Ivko Dimitric**

On the Chen Type of Spherical Isoparametric Hypersurfaces

11:50 - 12:30 **Vladimir S. Gerdjikov**

Reductions and New Types of Integrable Models  
in Two and More Dimensions

12:30 - 13:30 Lunch

## Afternoon Session

Chairman: Anatol Odziejewicz

16:00 - 16:40 **Yuan-Jen Chiang**

$f$ -biharmonic Maps Between Riemannian Manifolds

16:40 - 17:10 **Aneta Sliżewska**

Groupoid of Partially Invertible Elements of  $W^*$ -algebra

17:10 - 17:40 Coffee

17:40 - 18:10 **Bogdana Georgieva**

Multiparameter Contact Transformations

18:10 - 18:40 **Ramona-Andreea Rohan**

Some Remarks on the Exponential Map on the Groups  
 $SO(n)$  and  $SE(n)$

20:00 Farewell Diner

# P R O G R A M M E

13 June, 2012

08:15 - 09:15 Breakfast

## Morning Session

Chairman: **Jan J. Slawianowski**

09:30 - 10:10 **Victor Ginzburg**  
Seiberg-Witten Prepotential for Hitchin's System

10:10 - 10:40 **Viktor Ayadi**  
On the Superintegrability of the Rational  
Ruijsenaars-Schneider-van Diejen Models

10:40 - 11:10 Coffee

11:10 - 11:50 **Alexandar Ianovsky**  
Recursion Operator and Expansions Over Adjoint  
Solutions for the Caudrey-Beals-Coifman System  
With  $\mathbb{Z}_p$  Reductions of Mikhailov Type

11:50 - 12:30 **Sergei Parkhomenko**  
Fermionic Screening Currents and Line Bundle Twisted  
Chiral de Rham Complex on Toric Manifolds

12:30 - 13:30 Lunch

## Afternoon Session

Chairman: **Alexandar Ianovsky**

16:00 - 16:40 **Mayeul Arminjon**  
The Non-uniqueness Problem of the Dirac Theory:  
'Conservative' vs 'Radical' Solutions

16:40 - 17:10 **Tihomir Valchev**  
On Multicomponent Derivative Nonlinear Schrödinger  
Equation Related to Symmetric Spaces

17:10 - 17:40 Coffee

17:40 - 18:10 **Lubomir Kovachev**  
A Class of Localized Finite Energy Solutions of the  
Linear and Nonlinear Wave Equations

18:10 - 18:40 **Julia Bernatska**  
Harmonic Analysis on Lagrangian Manifolds of  
Integrable Hamiltonian Systems

18:45 Dinner