



SEENET-MTP Office Nis  
Faculty of Sciences and Mathematics,  
University of Nis, Serbia



With the support of  
VENICE OFFICE



Department of Physics  
Faculty of Exact Sciences  
University of Craiova, Romania

## JOINT MEETING ON MATHEMATICAL PHYSICS AND SCIENCE POLICY

19-22 September 2012, Craiova, Romania

### *The 8-th Workshop "Quantum Field Theory and Hamiltonian Systems"(QFTHS) List of contributions*

#### 20 September 2012, 9, 30-11, 30: SESSION I

- 9, 30 – 10, 00: M. Henneaux - "Gravitational electric-magnetic duality"  
10, 00 – 10, 30: M. Visinescu - "Hidden symmetries of higher dimensional Kerr-NUT-(A)dS metrics"  
10, 30 – 11, 00: A. Nicolaidis - "The Quantum Universe"  
11, 00 – 11, 30: Y. Sitenko - "Exact results in scattering theory for the Aharonov-Bohm effect"

#### 20 September 2012, 16, 00-18, 00: SESSION II

- 16, 00 – 16, 20: B. Dragovich - "On Modified Gravity"  
16, 20 – 16, 40: B. Aneva - "Algebraic Approach to Self-Organized Criticality"  
16, 40 – 17, 00: D.R. Grigore, G.Scharf - "Non-trivial 2+1-dimensional Gravity"  
17, 00 - 17, 20: V. Gerdjikov – "On the complete integrability of the 2-dimensional Toda field theory related to the exceptional  $g_2$  algebra"  
17, 20 – 17, 40: I. Caprini-Gologan - "Onset of perturbative QCD regime for the electromagnetic pion form factor"

#### 21 September 2012, 9, 00-11, 00: SESSION III

- 9, 00 – 10, 00: L. Brink - "Counterterms in Gravity and Supergravity"  
10, 00 – 10, 30: G. Barnich - "Topics in asymptotically flat gravity in 3 and 4 dimensions"  
10, 30 – 11, 00: I. Cotaescu - "The de Sitter QED in Coulomb gauge"

#### 21 September 2012, 11, 30- 13, 10: SESSION IV

- 11, 30 – 11, 50: G.Djordjevic, L. Nestic – "A new look at the Milne universe and its ground state wave functions"

- 11, 50 – 12, 10: D. Mladenov - "Forms of Relativistic Dynamics for Classical Yang-Mills Mechanics"
- 12, 10 – 12, 30: C.I. Lăzăroiu- "Eight-manifold flux compactifications of M-theory with two generalized Killing spinors"
- 12, 30 – 12, 50: E. M. Babalíc - "Revisiting eight-manifold compactifications of M-theory"
- 12, 50 – 13, 10: A.S.Cârstea – "Discrete integrable systems and rational elliptic surfaces of higher Index"

**21 September 2012, 15, 00-16, 00: POSTER SESSION**

15, 00 – 16, 00:

- P1:** C. Bizdadea, S. O. Saliu, L. Stanciu-Oprean "Special interactions between a DFLG in terms of a mixed symmetry tensor field  $(k,1)$  and a topological BF model."
- P2:** C. Bizdadea, S. O. Saliu, M. Toma - "Consistent interactions between dual formulations of linearized gravity in terms of massless tensor fields with mixed symmetries  $(k,1)$  and  $(2,2)$ ."
- P3:** C. Ionescu, R.Constantinescu, M.Stoicescu – "Propagating nerve impulse in quasi-steady state conditions."
- P4:** C. Babalíc – "On Two Integrable Discretisations of a General Two Component Volterra System."
- P5:** C. Bizdadea, M.M. Barcan, M.T. Miauta, S.O. Saliu - "Another relationship between first- and second-order systems"
- P6:** D. Dimitrijevic - To be announced

**21 September 2012, 16, 00-17, 40: SESSION V**

- 16, 00 – 16, 20: M. Dubois-Violette, T. Popov - "Fock Space for Parastatistics and Homotopy Algebras"
- 16, 20 – 16, 40: M. Rotaru - "General search for new phenomena in proton-proton collisions at LHC"
- 16, 40 – 17, 00: D.Grecu, A. Visinescu - "Statistical approach to modulation instability beyond Gaussian approximation"
- 17, 00 – 17, 20: S.Stoica - "Neutrino properties probed by lepton number violating processes at low and high energies"
- 17, 20 – 17, 40: E.M.Cioroianu - "Tensor gauge fields of degree three"

**22 September 2012, 9, 00-11, 00: SESSION VI**

- 9, 00 – 9, 20: C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Sararu, L. Stanciu-Oprean – "Towards a full classification of consistent interaction vertices in topological BF theories"
- 9, 20 – 9, 40: V. Urumov – "Stabilization of steady states and periodic orbits by extensions of Pyragas method"
- 9, 40 – 10, 00: J.P. Ngome – "Kepler-type symmetries in generalized Taub-NUT and multi-center metrics"
- 10, 00 – 10, 20: S. C. Sararu - "A note on the covariant quantization of self-dual p-forms"
- 10, 20 – 10, 40: R.Cimpoiasu - "Conservation Laws and associated Lie Symmetries for the 2D Ricci Flow Model"
- 10, 40 – 11, 00: A. Isar – "Quantum correlations in Gaussian open quantum systems"
- 11, 00 – 11, 20: P.Popescu – "On singular vector sub-bundles"

