

Fourth International Workshop on Statistical Mechanics and Dynamical Systems

coorganised by Greece and Turkey

Athens - Greece

July 17-19 2014

POSTERS

4th International Workshop on Statistical Mechanics and Dynamical Systems

Shock waves in BEC for tilted bichromatic optical lattice

by Eren Tosyali (Istanbul Bilgi University, Turkey)

Mathematical modeling of intracellular Ca^{2+} and membrane potential dynamics in the beta cell syncytium

by M. Gosak, T. Manos, A. Stozer, J. Dolensek, M. Marhl, M.S. Rupnik (University of Maribor, Slovenia)

Probing the role of accelerator modes on the dynamical localization properties of the quantum kicked rotator and on the anomalous diffusion of its classical analogue

by T. Manos and M. Robnik (University of Maribor, Slovenia)

Relationships and Scaling Laws Among Correlation, Fractality, Lyapunov Divergence and q -Gaussian Distributions

by Ozgur Afsar and Ugur Tirnakli (Ege University, Turkey)

Magnetization dynamics in soft ferromagnetic and exchange biased nanowires with tunable core and shell radii

by Yusuf Yuksel (Dokuz Eylul University, Izmir, Turkey)

q -Statistics on symmetric generalized binomial distributions

by Guiomar Ruiz and Constantino Tsallis (Universidad Politecnica de Madrid, Spain)

Hysteresis Characteristics of Heisenberg Thin Films

by Musa Atlihan (Dokuz Eylul University, Izmir, Turkey)

Linear and nonlinear photonic rogue waves in complex transparent media

by M. Mattheakis, I. J. Pitsios, G. P. Tsironis, S. Tzortzakis (University of Crete, Greece)

POSTERS
4th Ph.D. summer School - conference on
“Mathematical Modeling of Complex Systems”

Key-Phrase Detection Using Fractal Pattern of Words in a Text

by Amir H. Darooneh (Department of Physics, Zanjan University, Zanjan, Iran) & Elham Najafi (Department of Physics, Zanjan University, Zanjan, Iran)

Molecular Dynamics Algorithm for Simulating a System of Ellipsoids on GPU Architecture

by S.M. Rubio-Largo, D. Maza, R.C. Hidalgo (Departamento de Física y Matemática Aplicada. Facultad de Ciencias. Universidad de Navarra. Navarra, Spain) & Pedro G. Lind (Institute of Physics. Carl Von Ossiatzky. University of Oldenburg.D-26111, Oldenburg, Germany)

Noise Effects on Interacting Qubits

by Athanasios C. Tzemos (Research Center for Astronomy and Applied Mathematics, Academy of Athens, Athens, Greece) & Demetris P. K. Ghikas (Department of Physics, University of Patras, Patras 26500, Greece)

Diversity, Uncertainty and Stock Market Dynamics

by Christina Mikropoulou and Catherine Kyrtsov (University of Macedonia, Greece)

Fractal Properties & Chimera States in the Integrate-and-Fire Model for Neuron Interactions

by Nefeli Tsigkri, Joanna Hizanidis and Astero Provata (National Center for Scientific Research “Demokritos”, Athens, Greece)

Synchronisation Phenomena in Coupled Oscillators

by Evelyn Panagakou, Joanne Hizanidis and Astero Provata (National Center for Scientific Research “Demokritos”, Athens, Greece)

Modeling the Lymphocytic Choriomeningitis Virus: Insights into understanding its epidemiology in the wild

by Christy Contreras, John D. McKay, Joseph N. Blattman, Susan A. Holechek, (College of Liberal Arts and Sciences, Applied Mathematics for the Life and Social Sciences, The Biodesign Institute, Arizona State University, USA)

Field Theoretical Modelling of Ring Vortices in 2D Flows

by F. Spineanu, M. Vlad, V. Baran (National Institute of Laser, Plasma and Radiation Physics, Magurele-Bucharest, Romania)

2D coherent motion, Painleve III and Random Matrices

by Florin Spineanu, Madalina Vlad, Alexei Zubarev (National Institute of Laser, Plasma and Radiation Physics, Magurele-Bucharest, Romania)

Dynamics of Soliton Parameters in Coupled NLS equations

by I. K. Mylonas, V. M. Rothos, P. G. Kevrekidis, D. Frantzeskakis (Aristotle University of Thessaloniki; Dept. of Mathematics and Statistics, University of Massachusetts, Amherst; Dept. of Physics, University of Athens, Greece & USA)

Nonlinear regimes in field line random walk in space plasmas

by Madalina Vlad, Florin Spineanu, Andreea Croitoru (National Institute of Laser, Plasma and Radiation Physics, Magurele-Bucharest, Romania)