

# Conference on Nonlinearity

Belgrade, 11-12 October 2019

## Timetable Friday (11. 10. 2019)

09:20 – 10:00	40'	<i>Registration and opening</i>	
10:00 – 10:40	40'	A. Zagorodny	Founder of modern theoretical and mathematical physics
10:40 – 11:10	30'	<i>Coffee break</i>	
11:10 – 11:50	40'	W. Krolikowsky	Nonlocal solitons
11:50 – 12:20	30'	M. Belić	Rogue waves in optics: Facts and fictions
12:20 – 12:50	30'	V. Zasenکو	Transverse Transport of Magnetized Particles in Random Electric Fields
12:50 – 15:00	130'	<i>Lunch</i>	
15:00 – 15:40	40'	M.A.F. Sanjuan	Nonlinear dynamics, chaos and complex systems: A historical perspective
15:40 – 16:20	40'	D. Horvath	Gravity current behind precipitation patterns
16:20 – 16:50	30'	<i>Coffee break</i>	
16:50 – 17:20	30'	K. (Stevanović) Hedrih	Once again about nonlinear functional coordinate systems and rolling a heavy ball along their coordinate surfaces
17:20 – 17:40	20'	G. Djordjevic	Nonlinear effects in in RSII cosmological models with tachyon field
17:40 – 18:00	20'	N. Filipović	Computer modelling of cardiovascular system
18:00 – 19:00	60'	<i>Coctail</i>	

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## Timetable Saturday (12. 10. 2019)

09:20 – 09:40	20'	P. Papp	Controlling pattern formation of cadmium-hydroxide system
09:40 – 10:00	20'	N. Ostrovski	Nonlinear model of fluid diffusion in porous solids
10:00 – 10:20	20'	B. Urošević	Bond portfolio management in insurance industry – Implications of solvency II regulation
10:20 – 10:50	30'	Lj. Kolar-Anić	Formation of differential equations to describe the dynamics of a reaction system
10:50 – 11:10	20'	<i>Coffee break</i>	
11:10 – 11:40	30'	A. Zagorodny	Bogolyubov-Born-Green-Kirkwood-Yvon-hierarchy and effective grain potentials for dusty plasmas
11:40 – 12:00	20'	B. Sazdovic	T-duality in superstring theory
12:00 – 12:20	20'	V. Skarka	Nonlinear self-organization of solitons and optical soliton-tweezers in nanocomposites and suspensions of nanoparticles and nanographenes
12:20 – 12:35	15'	S. Maćešić	Analysis of reaction fronts observed in autocatalytic systems with reversible reactions
12:35 – 12:50	15'	B. Dragovich	Nonlinear and nonlocal dynamics of p-adic and zeta strings
<b>12:50 – 14:30</b>	<b>100'</b>	<b><i>Lunch</i></b>	
14:30 – 14:50	20'	B. Jovanović	Symmetries, invariant manifolds and integrability of natural mechanical systems on Stiefel varieties
14:50 – 15:10	20'	S. Zdravković	A review of recent studies on nonlinear dynamics of microtubules and DNA

15:10 – 15:30	20'	A. Obradović	The brachistochronic motion of a heavy ball rolling along an imperfect rough surface
15:30 – 15:45	15'	M. Stojanović	Linear and nonlinear effects in tachyon inflation in the holographic braneworld
15:45 – 16:00	15'	<i>Coffee break</i>	
16:00 – 16:15	15'	I. Atanasovska	The introduction of multi-body contact in non-linear dynamics
16:15 – 16:30	15'	I. Dimitrijevic	Cosmological solutions of a new nonlocal gravity model
16:30 – 16:45	15'	Z. Cupic	Instability region in models of nonlinear reaction systems. The stoichiometric network analysis
16:45 –		<i>Closing</i>	