

Nonlinearity, Nonlocality and Ultrametricity

Dragovich 80

International Conference NONLINEARITY, NONLOCALITY and ULTRAMETRICITY

Belgrade, 26–30. 05. 2025.

FRIDAY, 30. 05. 2025.

Serbian Academy of Sciences and Arts (SANU)

Knez Mihailova Street 35

Friday: PLENARY SESSION (ACADEMY: LECTURE HALL 2 at 1st floor)			
8:30 – 9:05	35'	Irina AREFEVA*	<i>On relations between the real Kähler and the complex Hilbert Spaces quantum mechanics</i>
9:05 – 9:40	35'	Igor VOLOVICH*	<i>Real Quantum Mechanics in a Kähler Space</i>
9:40 – 10:15	35'	Dmitry KAZAKOV*	<i>Quantum corrections to cosmological potentials and the origin of the cosmological constant</i>
10:15 – 10:45	30'	Coffee Break	
10:45 – 11:20	35'	Nediljko BUDISA	<i>Rewriting life's alphabet: Genetic code expansion and the rise of Xenobiology</i>
11:20 – 11:55	35'	Marko DJORDJEVIC	<i>Nonlinear Dynamics of Toxin-Antitoxin Systems in Regulating Gene Transfer and Persistence</i>
11:55 – 12:30	35'	Amare ABEBE	<i>Some cosmological viability constraints of modified gravity</i>
12:30 – 14:00	90'	LUNCH	

* – online talk

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Knez Mihailova Street 35

Friday: SESSION – I (ACADEMY: LECTURE HALL 2 at 1st floor)			
14:00 – 14:35	35'	Sergei ODINTSOV*	<i>Cosmic evolution and black holes in modified gravity</i>
14:35 – 15:10	35'	Emmanuel SARIDAKIS*	
15:10 – 15:45	35'	Alexander ZAKHAROV*	<i>Cosmology: 100 years after A. A. Friedmann</i>
15:45 – 16:15	30'	Coffee Break	
16:15 – 16:50	35'	Sergey VERNOV*	<i>New slow-roll approximations for inflationary models with the Gauss-Bonnet term and nonminimal coupling</i>
16:50 – 17:25	35'	Ekaterina POZDEEVA*	<i>Primordial Black Holes in Induced Gravity</i>
17:25 – 17:35	10'	CLOSING (Lecture Hall of SESSION II)	

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Mathematical Institute of the Serbian Academy of Sciences and Arts (MISANU)

Knez Mihailova Street 36

Friday: SESSION – II (MATH. INST: LECTURE HALL 102 at 1st floor)			
14:00 – 14:35	35'	Andrei KHRENNIKOV*	<i>Ultrametrics, dendrograms, quantum potential and medical diagnostics of neurological diseases</i>
14:35 – 15:10	35'	Farukh MUKHAMEDOV*	<i>p-Adic countable state SOS model</i>
15:10 – 15:45	35'	Mukadas MISSAROV*	<i>Fixed points of the renormalization group transformation in a generalized fermionic hierarchical model</i>
15:45 – 16:15	30'	Coffee Break	
16:15 – 16:50	35'	Trond DIGERNES*	<i>Non-Archimedean Test Function Spaces: A Discussion</i>
16:50 – 17:25	35'	David WEISBART*	<i>Brownian Motion in the p-Adic Integers is a Limit of Discrete Time Random Walks</i>
17:25 – 17:35	10'	CLOSING	

* – online talk