

Nonlinearity, Nonlocality and Ultrametricity

Dragovich 80

International Conference NONLINEARITY, NONLOCALITY and ULTRAMETRICITY

Belgrade, 26–30. 05. 2025.

THURSDAY, 29. 05. 2025.

Serbian Academy of Sciences and Arts (SANU)

Knez Mihailova Street 35

Thursday: PLENARY SESSION (ACADEMY: LECTURE HALL 2 at 1st floor)

8:30 – 9:05	35'	Ignatios ANTONIADIS	<i>Landscape, Swampland and Extra Dimensions</i>
9:05 – 9:40	35'	George SAVVIDY	<i>Landscape of QCD Vacuum</i>
9:40 – 10:15	35'	Alexey KOSHELEV	<i>Resolution of singularities in infinite-derivative gravity theories</i>
10:15 – 10:45	30'	Coffee Break	
10:45 – 11:20	35'	George ZOUPANOS	<i>Unification of Conformal and Fuzzy Gravities with Internal Interactions based on the $SO(10)$ GUT</i>
11:20 – 11:55	35'	Tristan HUBSCH	<i>Beyond Algebraic Solutions to Stringy Spacetime</i>
11:55 – 12:30	35'	Dejan STOJKOVIC	<i>Signals of the doomsday</i>
12:30 – 14:00	90'	LUNCH	

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Knez Mihailova Street 35

Thursday: SESSION – I (ACADEMY: LECTURE HALL 2 at 1st floor)			
14:00 – 14:35	35'	Andrei POGREBKOV	<i>Quantization of modified KdV (Boson-Fermion correspondence)</i>
14:35 – 15:10	35'	Vladimir DRAGOVIC	<i>Isoperiodic deformations of meromorphic differentials on Riemann surfaces and applications to Mathematical Physics</i>
15:10 – 15:45	35'	Bozidar JOVANOVIC	<i>Magnetic flows on spheres</i>
15:45 – 16:15	30'	Coffee Break	
16:15 – 16:50	35'	Boris MALOMED*	<i>A review: basic fractional nonlinear-wave models and solitons</i>
16:50 – 17:25	35'	Bosiljka TADIC*	<i>The origin of multiscale synchronization in human connectome networks</i>
17:25 – 18:00	35'	Vladimir SKARKA*	<i>Generalization of Boltzmann nonlinear equation using subdynamics approach</i>
19:30 – 23:30		CONFERENCE DINNER	

* – online talk

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

Knez Mihailova Street 36

Thursday: SESSION – II (MATH. INST: LECTURE HALL 102 at 1st floor)			
14:00 – 14:35	35'	Natasa MISIC	<i>Scale-free computing inspired by the genetic code</i>
14:35 – 15:10	35'	Elena FIMMEL	<i>Quantum-like modelling of the genetic code</i>
15:10 – 15:45	35'	Salvatore CAPOZZIELLO	<i>The Chern-Simons current in systems of DNA-RNA transcriptions</i>
15:45 – 16:15	30'	Coffee Break	
16:15 – 16:50	35'	Emilio ELIZALDE	<i>Zeta functions in Physics: a comprehensive review</i>
16:50 – 17:25	35'	Jelena STANKOVIC	<i>Cosmological solutions of a nonlocal de Sitter \sqrt{dS} gravity</i>
17:25 – 17:50	25'	Ivan DIMITRIJEVIC	<i>Nonlocal de Sitter \sqrt{dS} gravity model and its local description</i>
19:30 – 23:30		CONFERENCE DINNER	