Dragovich 80

## International Conference NONLINEARITY, NONLOCALITY and ULTRAMETRICITY

Belgrade, 26-30. 05. 2025.

TUESDAY, 27.05.2025.

## Serbian Academy of Sciences and Arts (SANU)

Knez Mihailova Street 35

Tuesday: PLENARY SESSION (ACADEMY: LECTURE HALL 2 at 1st floor)					
8:30 - 9:05	35'	Milivoj BELIC*	Self-accelerating Scorer beams		
9:05 – 9:40	35'	Miguel A.F. SANJUAN	Exploring Noisy Hamiltonian Dynamics		
9:40 – 10:15	35'	Radu CONSTANTINESCU	Generalized second order NPDEs with similar classes of solutions		
10:15 – 10:45	30'	Coffee Break			
10:45 – 11:20	35'	Evgeny ZELENOV	Planck length and metric geometry		
11:20 – 11:55	35'	Wilson ZUNIGA-GALIDO	p-Adic Quantum Mechanics, Quantum Walks, and the Discreteness of Space		
11:55 – 12:30	35'	Vladimir OSIPOV	Ultrametricity in physics of complex systems: from proteins to quantum chaos		
12:30 – 14:00	90'	LUNCH			

\* – online talk

Nonlinearity, Nonlocality and Ultrametricity

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## Serbian Academy of Sciences and Arts (SANU)

Knez Mihailova Street 35

Tuesday: SESSION – I (ACADEMY: LECTURE HALL 2 at 1st floor)					
14:00 – 14:35	35'	Paul SORBA	Fifty years of Group Theory in Particle Physics and Beyond		
14:35 – 15:10	35'	Khodr SHAMSEDDINE	Lebesgue-like measure and integration theory on Jordanian $sl(2)$ chain		
15:10 – 15:45	35'	Debashis GHOSHAL	Stuart-Landau Oscillator: Variations on a theme		
15:45 – 16:15	30'	Coffee Break			
16:15 – 16:50	35'	Miroslava VUKCEVIC	Scattering of UHECR at small pitch angle by plasma wave turbulence		
16:50 – 17:25	35'	Vladimir ANASHIN*	The p-adic view on causality and "true randomness"		
17:25 - 18:00	35'	Vladimir DOBREV*	Langlands Duality and Invariant Differential Operators		

\* - online talk

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#### TUESDAY, 27.05.2025.

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

Knez Mihailova Street 36

Tuesday: SESSION – II (MATH. INST: LECTURE HALL 102 at 1st floor)					
14:00 – 14:35	35'	Sarthak PARIKH	Holography on Bruhat-Tits Buildings		
14:35 – 15:10	35'	Ilaria SVAMPA	<i>Towards p-adic quantum computing via representations of the p-adic rotation group</i>		
15:10 – 15:45	35'	Vincenzo PARISI	Towards a theory of entanglement in p-adic quantum information		
15:45 – 16:15	30'	Coffee Break			
16:15 – 16:50	35'	Sergei KOZYREV	Learning theory as physics		
16:15 - 16:50 16:50 - 17:25	35' 35'	Sergei KOZYREV Patrick Erik BRADLEY	Learning theory as physics Towards p-adic boundary value problems		