Annual Scientific Session of the Department of Algebra and Logic

December 12, 2025, Room 578

Programme

- 9:45 10:00 Opening
- 10:00 10:20 Vesselin Drensky: Dihedral invariants of the free associative algebra of rank two (joint results with Silvia Boumova and Şehmus Fındık).
- 10:20 10:50 Tatiana Gateva-Ivanova: Finite idempotent braided sets and their quadratic algebras
- 10:50 11:00 Break
- 11:00 11:20 Emil Kolev: Covering problems
- 11:20 11:40 Ivan Chipchakov: Application of primary tensor product decompositions to the normality question for locally finite-dimensional central division algebras
- 11:40 11:50 Break
- 11:50 12:10 Veselin Filev: Holographic flavour and neural networks
- 12:10 12:30 Elitza Hristova: Tensor products of Lie nilpotent associative algebras
- 12:30 13:30 Lunch Break
- 13:30-13:50 Jörg Koppitz: On Semigroups of Order-Preserving Transformations with the Same Fix Set
- 13:50 14:10 Dimitrinka Vladeva: Why we study semicentral idempotent matrices?
- 14:10 14:20 Break
- 14:20 14:50 Hristo Iliev: On decomposable Tschirnhausen structures and their applications to smooth and non-reduced components of Hilbert schemes of curves
- 14:50 15:20 Ali Raad: Constructing Cartan subalgebras in non-classifiable C*-algebras
- 15:20 15:30 Break
- 15:30 15:50 Petar Iliev: Intuitionistic formulae with equivalence are exponentially more succinct

15:50 – 16:10 Tatyana Ivanova: The fragment of elementary plane Euclidean geometry, based on perpendicularity alone - decidability and complexity (joint with T. Tinchev)

16:10 - 16:20 Break

16:20-16:40 Vilislav Boutchaktchiev: On the Estimation Error of the Expected Inferred Loss Rate

16:40 - 17:10 Marin Genov: Some algebraic aspects of analysis over finite-dimensional commutative algebras

17:10 – 17:15 Break

17:15 – 17:35 Yacine Barhoumi-Andreani: The Tracy-Widom process