## Annual Reporting Session of the Department of Algebra and Logic December 18, 2020

## Program

- 9:30 9:50 Opening
- 9:50-10:20 Vesselin Drensky: New examples of fundamental algebras (joint project with Luisa Carini, University of Messina, Italy)
- 10:20-10:50 Vassil Kanev: Hurwitz modular varieties parametrizing coverings with fixed monodromy group
- 10:50 10:55 Break
- 10:55 11:20 Ivan Chipchakov: Fields of dimension one, normal over a global or local field
- 11:20-11:50 Tatiana Gateva-Ivanova: Associative algebras and Lie algebras defined by Lyndon words
- 11:50 11:55 Break
- 11:55 12:15 Jörg Koppitz: The generators of the semigroup of all transformations preserving a crown
- 12:15 12:30 Dimitrinka Vladeva (University of Forestry, Sofia): Derivations of skew Ore polynomial semirings
- 12:30 13:00 Break
- 13:00-13:30 Vladimir S. Gerdjikov: Recursion operators and the hierarchies of MKdV equations related to  $D_4^{(1)}$ ,  $D_4^{(2)}$  and  $D_4^{(3)}$  Kac-Moody algebras
- 13:30 13:50 Elitza Hristova: Regularity of algebras of O(n)-invariants using Hilbert series
- 13:50 13:55 Break
- 13:55 14:25 Veselin Filev: Holographic Berkooz-Douglas Matrix Model at Finite Temperature
- 14:25 14:45 Hristo Iliev: Families of curves on ruled surfaces and applications to the Hilbert scheme of curves
- 14:45 14:50 Break
- 14:50 15:05 Vilislav Buchackchiev: Forecasting of the Bulgarian House price index using some macroeconomic indicators

- 15:05 15:35 Dimiter Dobrev: Language for Description of Worlds
- 15:35 16:00 Break
- 16:00 16:30 Valentin Iliev: The Uncertainty Principle for Screening Tests
- 16:30 16:50 Tatyana Ivanova: Contact join-semilattices
- 16:50 16:55 Break
- 16:55 17:15 Roussanka Loukanova: Type-Theory of Parametric Algorithms
- 17:15-17:45 Valentin Goranko: Rational coordination in Pure Win-Lose Coordination Games
- 17:45-18:00 Dimitar Guelev: Strategy Profiles and a Vocabulary for Solving Infinite Concurrent Games with Temporary Coalitions in QCTL\*