

13th Serbian Mathematical Congress
Vrnjačka banja, May 22–25, 2014

Conference Schedule

Field 1: Set Theory, Topology, Logic, Algebra, Discrete Mathematics, Number Theory

May 22, 2014

- 15:00–17:00 **Plenary lectures**
- 17:00–17:30 Coffee break
- 17:30–19:40 Field 1 – Chairman: Carlos Martins da Fonseca
- 17:30–18:00 Francesco Belardo
Algebraic frustration of signed graphs
- 18:00–18:20 Tatjana Aleksić, Miroslav Petrović
Graphs with maximal spread in some classes of graphs
- 18:20–18:40 Bojana Borovicanin
On the signless Laplacian index of unicyclic and bicyclic graphs with perfect matching
- 18:40–19:00 Milica Anđelić
Some spectral properties of the graphs with (k,t) -regular sets
- 19:00–19:20 Vojislav Petrović
Kings in hypertournaments
- 19:20–19:40 Klavdija Kutnar
Half-arc transitive group actions with a small number of alternets

May 23, 2014

- 09:00–11:00 **Plenary lectures**
- 11:00–11:30 Coffee break
- 11:30–13:30 Field 1 – Chairman: Ljubiša Kočinac
- 11:30–12:00 Alexander Vladimirovich Arhangel'skii
Compactifications and remainders of Tychonoff spaces
- 12:00–12:30 Jan van Mill
Subsets of the reals that are countable dense homogeneous
- 12:30–13:00 Boaz Tsaban
Coherent omission of intervals: A combinatorial method for constructing special sets of reals and associated topological spaces
- 13:00–13:30 Giuseppe Di Maio
New convergences and topologies on (partial) function spaces
- 13:30–15:00 Lunch break
- 15:00–17:10 Field 1 – Chairman: Giuseppe Di Maio
- 15:00–15:30 Konstantin Kozlov
Equivariant topology: action's types, their extensions
- 15:30–16:00 Tatiana Nikolaevna Fomenko
On methods of discrete search for singularities of mappings of metric spaces
- 16:00–16:30 Vladimir Vershinin
Braids and Algebraic Topology
- 16:30–16:50 Milosav Marjanović
Hyperspaces of 0-dimensional spaces revisited
- 16:50–17:10 Dončo Dimovski, Sonja Chalamani
Topologies induced by $(3, 1, \rho)$ -metric and $(3, 2, \rho)$ -metrics
- 17:00–17:30 Coffee break
- 17:30–19:40 Field 1 – Chairman: Francesco Belardo
- 17:30–17:50 Dragan Stevanović
A Simple Estimate of the Largest Eigenvalue of Adjacency Matrix of a Graph
- 17:50–18:10 Aleksandra Kostić
Effective Homology computation using symbolic software
- 18:10–18:30 Marko Radovanović
A description of the cohomology of real flag manifolds
- 18:30–19:00 Dragan Stankov
Roots of trinomials of bounded height
- 19:00–19:20 Bojana Lasković, Miodrag Rašković, Nebojša Ikodinović
Some applications of nonstandard analysis to functional equations
- 19:20–19:40 İbrahim Şentürk, Tahsin Öner
On some set theoretical properties of logical consequence

May 24, 2014

- 09:00–11:00 **Plenary lectures**
- 11:00–11:30 Coffee break
- 11:30–13:30 Field 1 – Chairman: Manfred Droste
- 11:30–11:50 Jelena Ignjatović, Miroslav Ćirić
Extreme solutions to inequalities and equations defined by residuated functions
- 11:50–12:10 Miroslav Ćirić, Jelena Ignjatović
Solving equations in residuated semigroups and quantales
- 12:10–12:30 Nada Damljanović, Miroslav Ćirić, Jelena Ignjatović
Residuation in algebras of relations and matrices
- 12:30–12:50 Arsham Borumand Saeid, S Zahiri, M Pourkhaton
Some results in nodal filters in residuated lattices
- 12:50–13:10 Marija Dodig
Matrix pencils completion problems
- 13:10–13:30 Carlos Martins da Fonseca
The Bruhat order for a class of binary matrices
- 13:30–15:00 Lunch break
- 15:00–17:00 Field 1 – Chairman: Aleksandar Lipkovski
- 15:00–15:20 Wenguang Zhai
On Tong's method and its applications
- 15:20–15:40 Aseem Mukund Bhagwat
Polygonal numbers and Fermat's Last Theorem
- 15:40–16:00 Gediminas Stepanauskas, Jonas Siaulyš
On the limit distributions for some sets of additive arithmetic functions
- 16:00–16:20 Romeo Meštrović
On Kurepa's determinants arising from Kurepa's left factorial hypothesis
- 16:20–16:40 Eugenijus Manstavicius, Vytautas Stepanauskas
On influence of probabilistic number theory to probabilistic combinatorics
- 16:40–17:00 Žarko Mijajlović, Aleksandar Pejović
Definable subsets of finite structures and applications
- 17:00–17:30 Coffee break
- 17:30–19:30 Field 1 – Chairman: Žarko Mijajlović
- 17:30–18:00 Nikita Shekutkovski
Intrinsic shape - the proximate approach
- 18:00–18:20 Nikita Shekutkovski, Aneta Velkoska
One Invariant of Intrinsic Shape
- 18:20–18:40 Predrag Krtolica, Predrag Stanimirović
An integer sequence derived by polygon triangulation
- 18:40–19:00 Milan Živanović, Aleksandar Lipkovski
On arithmetic operations on the set of pythagorean triples
- 19:00–19:20 Aleksandar Lipkovski, Samira Zeada
A note on multivariate polynomial division and Gröbner bases

May 25, 2014

- 09:00–11:00 **Plenary lectures**
- 11:00–11:30 Coffee break
- 11:30–13:50 Field 1 – Chairman: Miodrag Rašković
- 11:30–11:50 Zoran Petrović
Simplicial complexes associated to commutative rings
- 11:50–12:10 Tanja Stojadinović
Combinatorial Hopf algebra of matroids
- 12:10–13:00 Maja Roslavcev
Koszul rings
- 13:00–13:50 Emil Ilić-Georgijević
On graded Ω -groups