

P R O G R A M

Sunday, June 9

Mathematical Institute, room 301F

Contributed talks

11.00 Baoyindureng Wu, On odd induced subgraphs of a graph

11.20 Goran Popivoda, On the σ -irregularity index

11.40 Open problem session

Monday, June 10

Serbian Academy of Sciences and Arts, Ceremonial hall

Invited talks

09.30 Opening ceremony

10.00 Huiqiu Lin, Spectral extremal results on H -minors

11.00 Coffee break

11.30 Stephan Wagner, Mean subtree order and related invariants

12.30 Klavdija Kutnar, Hamilton paths and cycles in vertex-transitive graphs

BREAK

15.00 Bo Ning, On a conjecture of Mohar about HL -index

16.00 Péter Csikvári, About the Merino-Welsh conjecture

17.00 Cocktail in the club of the Academy (mezzanine floor)

Tuesday, June 11

Serbian Academy of Sciences and Arts, 2nd floor

Contributed talks

09.30 Xueliang Li, Some results on Gallai-Ramsey type problem

09.50 Shenggui Zhang, The absence of monochromatic triangles implies various properly colored spanning trees

10.10 Đorđe Baralić, The chromatic number of the associahedron

10.30 Xia Zhang, Edge coloring of hypergraphs

10.50 Coffee break

11.20 Ligong Wang, The signless Laplacian spectral radius of $2K_3$ -free graphs

11.40 Nino Bašić, On nut graphs with a given automorphism group

12.00 Jiangdong Ai, Graph operations and a unified method for kinds of Turán-type problems on paths, cycles and matchings

12.20 Maurizio Brunetti, Eigenvalues of complex unit gain graphs and gain regularity

BREAK

14.30 Vedran Krčadinac, On higher-dimensional Hadamard matrices and designs

14.50 Sumin Huang, An embedding technique in the study of word-representability of graphs

15.10 Erfei Yue, Results on Bollobás set-pair systems

15.30 Jie Hu, On generalizations of Dirac-type problems

15.50 Coffee break

16.20 Zhenzhen Lou, Some progress on minimum spectral radius of a graph

16.40 Irena Jovanović, On some spectral properties of graphs with self-loops

17.00 Shixin Wang, On 2-integral Cayley graphs

17.20 Tamás Réti, On the classification and characterization of graphs with two main eigenvalues

Wednesday, June 12

Serbian Academy of Sciences and Arts, Ceremonial hall

Invited talks

09.30 Vilmar Trevisan, Limit points of spectral radius of graphs

10.30 **Coffee break**

11.00 Genjiu Xu, Values for cooperative games with a prior unions
and a communication graph based on combined effects

12.00 Zhao Zhang, Approximation algorithm for unrooted
prize-collecting forest with multiple components

BREAK

Excursion (exact information available on the spot)

18.30 **Conference dinner, Mama Shelter hotel**

Thursday, June 13

Serbian Academy of Sciences and Arts, 2nd floor

Contributed talks

- 09.30** Francesco Belardo, Families of signed graphs with strong (anti-)reciprocal eigenvalue property
- 09.50** Zhouningxin Wang, Density of C_3^* -critical signed graphs
- 10.10** Tamara Koledin, On strongly regular signed graphs
- 10.30** Callum Huntington, Constructions of nonregular cospectral signed graphs

10.50 Coffee break

- 11.20** Dragan Stevanović, Reinforcement learning for graphs and beyond
- 11.40** Tatjana Davidović, Metaheuristics for finding threshold graphs with maximum spectral radius
- 12.00** Zorica Dražić, Connected graphs of fixed order and size with minimal spectral radius
- 12.20** Marko Milošević, On computational searches for borderenergetic graphs

BREAK

- 14.30** Liqiong Xu, Uniformly 3-connected graphs
- 14.50** Tobias Hoffman, Bounds on the largest eigenvalue and energy of the connectivity matrix
- 15.10** Heping Zhang, Minimum degree of minimal k -factor-critical graphs
- 15.30** Xiaowei Yu, A Ramsey-Turán theory for tilings in graphs

15.50 Coffee break

- 16.20** Tomislav Došlić, Evolution of geometric graphs of fullerene spectra
- 16.40** Snježana Majstorović-Ergotić, On Graovac-Ghorbani index of unicyclic graphs
- 17.00** Luka Podrug, Metallic cubes and beyond

Friday, June 14

Serbian Academy of Sciences and Arts, 2nd floor

Contributed talks

09.30 Ivan Damnjanović, Polynomial indicator of flat bands

09.50 Weigen Yan, On the edge reconstruction of six digraph polynomials

10.10 Xianan Jin, Twist polynomial as a weight system

10.30 Milica Anđelić, The Moore-Penrose inverse of a Laplacian matrix of a signed graph

10.50 Coffee break

11.20 Gašper Domen Romih, ℓ_1 -embeddability of hypergraphs

11.40 Haiyan Chen, Hitting times for the simple random walk on cube-like networks

12.00 Liming Xiong, How does a necessary condition effect a graph to have hamiltonian property?

12.20 Jiaao Li, Some saturation problems for nowhere-zero flows

Closing remarks