

SGA 2016 - Conference program

Thursday, May 19, Room 2, 3rd floor

Registration, 8:30 - 9

Opening, 9 - 9:30

Invited talk, 9:30 - 10:20

- W. Haemers, *Spectral characterizations of graphs*,

Break, 10:20 - 10:30

Section 1, 10:30 - 11:50

- D. Stevanović, *Comparing closed walk counts in trees consisting of three paths*,
- M.A. Fiol, *Equivalent characterizations of the spectra of graphs and applications to measures of distance-regularity*,
- M. Fürer, *Locating the eigenvalues for graphs of small clique-width*,
- E.O.D. Andriantiana, *On counting based graph invariants and segment sequences of trees*,

Coffee break, 11:50 - 12:10

Section 2, 12:10 - 13:30

- D. Cvetković, *Three examples of a ground-breaking impact of the variable neighborhood search on investigations in graph theory*,
- E. Kaya, *On the Co-PI spectral radius and the Co-PI energy of graphs*,
- A.D. Maden, *Improved bounds for the normalized Laplacian energy of graphs*,
- E. Zogić, *Resolvent energy of graphs*,

Lunch break, 13:30 - 15

Invited talk, 15 - 15:50

- J. Koolen, *On graphs with smallest eigenvalue at least -3* ,

Break, 15:50 - 16

Section 3, 16 - 17:20

- P. Hansen, *Cospectrality of graphs with respect to distance matrices*,
- C. Dalfó, *Cospectral digraphs from locally line digraphs*,

- I. Jovanović, *Constructing graphs with given spectrum and the spectral radius at most 2*,
- N. Abreu, *A Nordhaus-Gaddum upper bound to the second eigenvalue of a graph*,

Coffee break, 17:20 - 17:40

Section 4, 17:40 - 19

- M. Mitjana, *The Kirchhoff index of some molecular graphs*,
- M. Bradonjić, *Asymptotic laws for maximum coloring of random geometric graphs*,
- S. Sorgun, *On Laplacian spectrum of the nilpotent graphs over the rings \mathbf{Z}_n* ,
- A.M. Encinas, *Resistive distances on networks*,

Conference Dinner, Hotel Palace, at 20

Friday, May 20, Room 2, 3rd floor

Invited talk, 9 - 9:50

- V. Trevisan, *Recent developments on Laplacian eigenvalue distribution*,

Break, 9:50 - 10

Section 5, 10 - 11:20

- P. Rowlinson, *Some graphs with just three distinct eigenvalues*,
- F. Belardo, *Star complement technique and the eigenbasis of -2 in signed line graphs*,
- T. Koledin, *Regular graphs with a small number of distinct eigenvalues*,
- I. Sciriha, *A nut graph lies in an extremal singular graph*,

Coffee break, 11:20 - 11:40

Section 6, 11:40 - 13

- P. Van Mieghem, *The algebraic connectivity of an interdependent network*,
- R. E. Kooij, *Inconsistencies among spectral robustness metrics*,
- V. Todorčević, *Some remarks on spectral recognition of music melodies*,
- N. Djurdjevac Conrad, *Spectral method for finding dominant graph structures: from undirected to directed graphs*,

Lunch break, 13 - 14:30

Invited talk, 14:30 - 15:20

- C. Helmberg, *A semidefinite programming view on spectral properties of graph Laplacians,*

Break, 15:20 - 15:30

Section 7, 15:30 - 16:50

- V. Vujčić, *A survey on the complexity Indices for the travelling salesman problem,*
- K. Das, *On (signless) Laplacian eigenvalues of graphs,*
- Lj. Pavlović, *Conjecture for the geometric-arithmetic index with given minimum degree,*
- X. Wang, *Eigenvector matrix of the Laplacian,*

Coffee break, 16:50 - 17:10

Section 8, 17:10 - 18:50

- D. Cardoso, *Spectral and combinatorial properties of lexicographic powers of graphs,*
- A. Krapež, *Special graphs and quasigroup functional equations,*
- B. Borovićanin, *On the maximum and minimum Zagreb indices of some classes of trees,*
- M. Rašajski, *Some notes on maximal number of cycles in reflexive cacti,*
- B. Mihajlović, *Some transformations that preserve $\text{sgn}(\lambda_2 - r)$.*