8th Slovenian Conference on Graph Theory
Kranjska Gora, June 21 – 27, 2015

Organized by **IMFM** (Institute of Mathematics, Physics and Mechanics, Ljubljana).

In collaboration with

**UL FMF** (University of Ljubljana, Faculty of Mathematics and Physics),

**UL PeF** (University of Ljubljana, Faculty of Education),

**UM FNM** (University of Maribor, Faculty of Natural Sciences and Mathematics),

**UP FAMNIT** (University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies),

**UP IAM** (University of Primorska, Andrej Marušič Institute),

**Abelium d.o.o.**

**Scientific Committee:** Sandi Klavžar (chair), Dragan Marušič, Bojan Mohar, Tomaž Pisanski

**Organizing Committee:** Boštjan Brešar, Sergio Cabello, Gašper Fijavž, Gašper Košmrlj, Boštjan Kuzman, Primož Potočnik

**Local Organizing Committee:** K. Berčič, T. Gologranc, M. Jakovac, A. Kelenc, T. Marc, P. Repolusk

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08:45 PLENARY SESSION (Hotel Kompas, VKD ABC) 8th Slovenian Conference on Graph Theory

08:45 Opening remarks

09:00 Orientations of graphs
CARSTEN THOMASSEN
Technical University of Denmark

09:30 Transversals and Independence in Hypergraphs with Applications
MICHAEL HENNING
University of Johannesburg, South Africa

11:30 MORNING SESSIONS (Ramada Resort and Hotel Kompas)

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<td>Track</td>
<td>General (chair Xiong)</td>
<td>General (c. Potocnik)</td>
<td>Chemical GT</td>
<td>Polytopes &amp; Graphs</td>
<td>Graph Domination</td>
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</table>
| 11:30 | M. FRICK  
Local properties that imply global cycle... | M. ŠAJNA  
Eulerian properties of 3-uniform hypergraphs | XUELIANG LI  
Indices, polynomials and matrices - A unified Viewpoint | EGON SCHULTE  
Skeletal polyhedral geometry and symmetry | PAUL DORBEC  
How does the game domination number behave by atomic changes on the graph |
| 11:50 | F. MEROLA  
Cyclic Hamiltonian cycle systems... | Z. LONC  
Harmonious and acromatic colorings... | A. MEDNYKH  
Volumes of polyhedra with symmetries | S. SCHMIDT  
Gamburges and graphs with small... |
| 12:10 | G. RINALDI  
Pyramidal k-cycle decompositions | S.-C. LÓPEZ  
Langford sequences from products of... | W. LI  
The permanent polynomials of graphs... | |
| 12:30 | Lunch |

14:30 AFTERNOON SESSIONS (Ramada Resort and Hotel Kompas)

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<td>Polytopes &amp; Graphs</td>
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<td>Gen. (chair Oellermann)</td>
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| 14:30 | E. STEFFEN  
Nowhere-zero 5-flows | F. LEHNER  
Random colourings and graph automaton... | P. ŽIGERT PLETERŠEK  
Equivalence of Zhang-Zhang polynomial... | M. CONDER  
The smallest regular hypertopes of... | Z. TUZA  
Distance domination in vertex-partitioned... | P. DANKELMANN  
New bounds on the average eccentricity... |
| 14:50 | L. JIN  
Cores, joins and the Fano-flow conjectures | M. GRECH  
Cyclic automorphism groups of graphs | N. TRATNIK  
Carbon nanotubes and their resonance graphs | D. LEEMANS  
Hypertopes arising from Suzuki groups | C. BUTIÁS  
General upper bound on the game... | S. RUKAVINA  
Some properties of k-geodetic graphs |
| 15:10 | G. MAZZUOCCHIOLO  
The structure of graphs with circular... | V. MIKULIČ CRNKOVIĆ  
The construction of non-transitive graphs... | N. BAŠIĆ  
Perforated patches, iterated altans... | J. MOERENHOUT  
Chiral polyhedra and almost simple... | M. MORA  
Uniform hypergraphs and vert. dominating... | S. ZEMLIJIČ  
Distances in Sierpiński graphs |
| 15:30 | Coffee break (Ramada Resort and Hotel Kompas) |

17:00 Short break

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<tr>
<th>Track</th>
<th>Gen. (c. Dankelmann)</th>
<th>General (chair Jakovac)</th>
<th>Chemical GT</th>
<th>Polytopes &amp; Graphs</th>
<th>Graph Domination</th>
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</table>
| 17:15 | K. ANDO  
Conditions for k-connected graph... | A. BURGESS  
On the Hamilton-Waterloo... odd cycle... | F. ZHANG  
Binary Hamm. graphs in Archimedean tilings | L. BERMAN  
Symmetric geom. embeddings of cyclic... | J. VAN VUUREN  
On the robustness of the v. independence... | B. MOHAR  
Hermitian adjacency spectrum of digraphs... |
| 17:35 | G. KUBICKI  
Optimal strategy for avoiding capture in... | T. TRAETTA  
On the Hamilton-Waterloo... Cayley G | A. TEPEH  
An inequality between the edge-Wiener... | G. GÉVAY  
Constructions for configurations of... | K. WASH  
Edgeless graphs are the only universal fixers | B. THÜNE  
Unitary equivalent graphs |
| 17:55 | M. MERKER  
Decomposing highly edge-connected... | V. BOONTHONG  
Clique decompositions of the distance multig... | A. IRANMANESH  
On the terminal Wiener and edge-Wiener... | K. STOKES  
Configurations in surfaces | M. KRZYWKOWSKI  
Domination stability in graphs | Z. L. BLÁZSIK  
Cospectral regular graphs with... |
### 8th Slovenian Conference on Graph Theory

**Date:** June 22-26, 2015  
**Location:** Vodice, Croatia

#### 8th Slovenian Conference on Graph Theory: Overview

**Session:** Plenary Session  
**Time:** 9:00 - 9:30  
**Speaker:** THOMAS TUCKER  
**Title:** The Riemann-Hurwitz Equation  
**Affiliation:** Colgate University, USA

**Session:** Morning Sections (Ramada Resort and Hotel Kompas)  
**Time:** 10:00 - 12:00

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<td>Track</td>
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<td>Graph Imbeddings</td>
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<td>Graph Products</td>
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</table>
| 11:30 | M. ZHAN  
Panconnectedness and its applications | M. CONDER  
Cyclic complements and skew morphisms of... | A. VESEL  
Regular coronoids and 4-tilings | P. TERWILLIGER  
Lowering-raising triples of linear transformations | RICHARD HAMMACK  
Automorphism groups of bipartite direct products |
| 11:50 | Y. KEMPNER  
Zigzags on interval greedoids | G. JONES  
Conjugacy classes of reflections of maps | I. SCRIGA  
Molecules with analogous conducting... | E. HANSON  
New characterizations of Leonard pairs |
| 12:10 | M. ANHOLCER  
Distance magic labelings and spectra... | K. HRIŇAĽOVÁ  
Orientably-regular maps on the group... | X. JIN  
Homfly polynomials of DNA double crossover... | J. H. LEE  
Q-polynomial distance-regular graphs and... | S. ŠPACAPAN  
The k-independence number of direct... |

**Session:** Afternoon Sections (Ramada Resort and Hotel Kompas)  
**Time:** 14:00 - 15:30

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</table>
| 14:30 | M. BURATTI  
A conjecture about polygonal curves in... | L. ABRAMS  
Symmetric and self-dual spherical embeddings... | C. FLAMM  
Designing enzyme catalysed reaction... | P.-H. ZIESECHANG  
Hypergroups – AssocShe – buildings | D. RALL  
On Cartesian products having a minimum... | H. NOZAKI  
Large regular graphs of given valency and... |
| 14:50 | J. LEANOS  
Gaussian paragraphs of pseudolinar... | K. OZEKI  
Book-emb. of graphs on the projective plane... | D. MERKLE  
Composition of chemical graph... | C. FRENCH  
Schemes for extending the theory of schemes... | I. PETERIN  
Another approach to the linear algorithm... | G. GREAVES  
Graphs with three eigenvalues and... |
| 15:10 | S. PASOTTI  
Geometric constructions for loops | Y. S. KWON  
Some regular Cayley maps on dihedral... | R. KIARAN  
Using hypergraphs for chemical synthesis... | A. HERMAN  
Calculating fusions of association schemes | D. BOUTIN  
Determining and distinguishing within... | M. POKORNY  
Spectra and distance spectra of H-join graphs |

**Session:** Lunch  
**Time:** 12:30 - 14:00

**Session:** Afternoon Sections (Ramada Resort and Hotel Kompas)  
**Time:** 15:30 - 17:00

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| 16:00 | CHRIS PARKER  
New directions in the classification of finite simple graphs | JONATHAN GROSS  
Calculating genus polynomials via string operations and matrices, Part I | T. DOŠLJUČ  
Counting maximal matchings in some... | D. PELLICER  
Tight non-orientable regular polyhedra | Y. RHO  
Distance two labeling for the strong product... | P. HORN  
Local geometry of graphs and random... |
| 16:20 | P. SPIGA  
A weak version of the Erdos-Ko-Rado... | T. TUCKER  
Ibm. types for linear families, Markov... | U. THORSEN  
Automatically inferring atom to atom... | M. YAN  
Tiling of the sphere by congruent equilateral... | L. S. CHANDRAN  
Rainbow connection number of graph... | V. RAZANAJATOVO MIRSANANTENAINE  
Towards a conjecture... |
| 16:40 | S. H. KOIKE QUINTANAR  
On the CI-property... | T. PISANSKI  
Odn: an artistic case study between circle... | H. ZHANG  
On the anti-forcing number of fullerene... | E. O’REILLY-REGUEIRO  
Neighbour-transitive incidence structures... | M. HELLMUTH  
A first step towards determining biological... | B. MIHALIOVIĆ  
On some graph transformations that... |
| 17:15 | G. SOMLAI  
Direct sum of CI-groups | J.-B. LIU  
Genera of Cayley maps | E. HARTUNG  
The Clar and Fries structures of a fullerene | G. WILLIAMS  
Understanding monodromy groups... | T. GOLOGRANC  
Steiner convex sets of grids | H. TOPCU  
Spectral determination of some graphs which... |
| 17:35 | A. R. ASHRAFI  
Spectrum of the power graph... | M. KOTRBČIK  
Genus of circular amalgamations of... | Q. LI  
On the anti-Kekule number of cubic graphs | B. MONSON  
Fully truncated simplices | C. YERGER  
Optimal pebbling on grids | A. FARRUGIA  
Non-singular bipartite graphs with a singular... |

**Session:** Short break  
**Time:** 17:00 - 18:30

**Session:** Afternoon Sections (Ramada Resort and Hotel Kompas)  
**Time:** 18:30 - 20:30

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| 19:00 | S. H. KOIKE QUINTANAR  
On the CI-property... | T. PISANSKI  
Odn: an artistic case study between circle... | H. ZHANG  
On the anti-forcing number of fullerene... | E. O’REILLY-REGUEIRO  
Neighbour-transitive incidence structures... | M. HELLMUTH  
A first step towards determining biological... | B. MIHALIOVIĆ  
On some graph transformations that... |
| 19:30 | G. SOMLAI  
Direct sum of CI-groups | J.-B. LIU  
Genera of Cayley maps | E. HARTUNG  
The Clar and Fries structures of a fullerene | G. WILLIAMS  
Understanding monodromy groups... | T. GOLOGRANC  
Steiner convex sets of grids | H. TOPCU  
Spectral determination of some graphs which... |
| 20:00 | A. R. ASHRAFI  
Spectrum of the power graph of finite groups... | M. KOTRBČIK  
Genus of circular amalgamations of... | Q. LI  
On the anti-Kekule number of cubic graphs | B. MONSON  
Fully truncated simplices | C. YERGER  
Optimal pebbling on grids | A. FARRUGIA  
Non-singular bipartite graphs with a singular... |
WEDNESDAY, June 24, 2015

09:00 PLENARY SESSION (Hotel Kompas, VKD ABC)

Coloring, Sparseness and Girth

DOUGLAS WEST
Zhejiang University, China, and University of Illinois, USA

09:00

10:00 Coffee break (Ramada resort)

10:40 MORNING SECTIONS (Ramada Resort and Hotel Kompas)

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<td>10:40 W. IMRICH</td>
<td>On a theorem of Halin</td>
<td>G. FJAVŽ</td>
<td>B. FURTULA</td>
<td>E. VAN DAM</td>
<td>F. BELARDO</td>
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<td>Complete minors in orientable surfaces</td>
<td>On structure sensitivity of topological indices</td>
<td>Directed strongly walk-regular graphs and...</td>
<td>On the eigenspaces of signed line graphs...</td>
<td>Long rainbow path in proper edge colored...</td>
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<td>11:00 M. E. WATKINS</td>
<td>Progress on the GFR problem</td>
<td>K. NOGUCHI</td>
<td>J. WANG</td>
<td>Š. MIKLAVIČ</td>
<td>T. TANIGUCHI</td>
<td>D. HE</td>
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<td>Grünbaum colorings of locally planar Fisk...</td>
<td>A lower bound for the first Zagreb index and...</td>
<td>Bipartite distance-regular graphs with...</td>
<td>Hoffman graphs and edge-signed graphs</td>
<td>On relaxed strong edge-coloring of G</td>
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<td>11:20 P. MORAVEC</td>
<td>Groups with many self-centralizing subgroups</td>
<td>A. NAKAMOTO</td>
<td>C. SELIJA</td>
<td>S. PENIJIĆ</td>
<td>I. JOVANOVIĆ</td>
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<td>Diagonal flips in plane graphs with triangular...</td>
<td>Edge realizability of connected simple...</td>
<td>On bipartite Q-polynomial distance...</td>
<td>Non-negative spectrum of a digraph</td>
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12:00 ARS MATHEMATICA CONTEMPORANEA
Editorial Board Meeting

12:30 Lunch

14:00 CONFERENCE EXCURSION

TRIP A: BLED (by bus)

Often described as an ‘image of paradise’, the Alpine resort town of Bled will enchant you with its emerald-green lake, fairytale-like island and imposing castle reigning on top of a rocky cliff. The charming lake resort of Bled, famous for a church on an island in the middle of a lake, a medieval castle perched on a cliff high above the lake, and splendid views of surrounding Alpine peaks.

Included: guide, bus, castle admission, dessert
Do not forget: camera, comfortable shoes

TRIP B: TRENTA (by bus)

Mysteriously enticing, the Trenta valley is a visitor’s paradise and an unforgettable experience of intact nature. Upon the ascent to the 1611 m high Vršič Pass we stop to look at “Ajdovska deklica” and the Russian Chapel, a fascinating WWI monument. At the heart of Triglav National park in Trenta, you will also have the chance to see the presentation at the visitors centre and taste local products.

Included: guide, bus, admission, degustation
Do not forget: camera, comfortable shoes

TRIP C: BIKE TREKKING (non-guided)

For more adventurous participants, we offer a possibility to rent a trekking bike and enjoy a cycling afternoon at your own pace. Several beautiful trips are possible along the famous Esmerald biking trail, built upon the abandoned railway route, passing through Kranjska gora from Mojstrana on the east to Tarvisio (Italy) on the west. No guide or insurance included.
The trip is at your own responsibility.

Included: trekking bike, helmet, refreshments
Do not forget: water, sun-protection
11:30  MORNING SECTIONS (Ramada Resort and Hotel Kompas)

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<td>Metric Dimension</td>
<td>Finite Geometry</td>
<td>Association Schemes</td>
<td>Gener (c. Mazzuocco)</td>
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11:30  ROBERT JACAY
Structure and properties of vertex-transitive graphs

11:45  ISMAEL GONZÁLEZ YERO
From the identification of vertices in a graph to non-identification: a short story

11:50  TAMÁS SZÖNYI
Zarankiewicz’ problem and finite geometries

12:00  M. MUZCHUK
On coherent Terviliger algebras and wreath...

12:05  J. KARABAŠ
Oriented edge-transitive maps

12:10  G. JONES
Which merged Johnson graphs are Cayley...

12:15  B. DASGUPTA
On optimal approx. results for computing...

12:20  J. ŠIRÁŇ
Large Cayley graphs of given degree and...

12:25  S. SUDA
Assoc. Schre related to Hadamard matrices

12:30  J. B. GAUCI
The diameter of... GP[n,m] for coprime...

12:35  Coffee break (Hotel Kompas)

14:30  AFTERNOON SECTIONS (Ramada Resort and Hotel Kompas)

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<td>Association Schemes</td>
<td>General (chair Klavžar)</td>
<td>Combinatorics</td>
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14:30  R. G. MÖLLER
Infinite cubic VT graphs

14:45  INGO SCHIERMEYER
Chromatic number of P5-free graphs: \(\chi\)-bounding functions

14:50  ILIA PONOMARENKO
On Schur 2-groups

15:00  V. PEPE
Forbidden subgraphs in the norm graph

15:10  P. ŠPARL
Reachability relations in digraphs

15:15  E. KUBICKA
Colorings avoiding monoclr. subgraphs...

15:30  J. DE BEULE
Strongly regular graphs and substructures of...

15:45  G. RYABOV
On abelian Schur 3-groups

15:50  M. MULDER
An ABC-Problem for location and...

15:55  R. WOODROOFE
Order congruence lattices are EL-shellable

17:00  Short break

19:30  CONFERENCE DINNER (Hotel Kompas)
09:00 PLENARY SESSION (Hotel Kompas, VKD ABC)

09:00 Graph Generation
BRENDAN D. MC KAY
Australian National University

10:00 Branched Coverings of Graphs and Harmonic Automorphisms
ALEXANDER MEDNYKH
Sobolev Institute of Mathematics, Russia

11:30 MORNING SECTIONS (Ramada Resort and Hotel Kompas)

Room Planica A (Ramada) Planica B (Ramada) Ovalna 2 (Ramada) Ovalna 1 (Ramada) VKD ABC (Kompas)
Track Metric Dimension Vertex Colourings VT Graphs General (chair Fijavž) Combinatorics
11:30 O. OELLERMANN The simultaneous MD of graph families M. HORŇÁK On the palette index of complete bipartite... M. GHASEMI Tetravalent VT graphs of order 4p²... Y. SUZUKI Kₚ-minors in optimal 1-planar graphs D. PINTO A gluing scheme for max-girth tree-decom...
11:50 R. SIMANJUNTAK Strong oriented graphs with largest direct. MD J. PRZBYŁO Locally irregular graph colourings – distant... T. MARC Classification of VT cubic partial cubes A. WILLIAMS Hardness results for Buttons & Scissors E. ANDRIANTIANA Trees with min number of infima closed sets
12:10 C. HERNANDO Some relations btw the partition dimens... S. JENDROL Facial colourings of plane graphs A. ŽITNIK VT graphs and their arc-types T. PERRETT A zero-free interval for chromatic polynomial... S. WAGNER Recent results on subtrees of trees

12:30 Lunch

14:30 AFTERNOON SECTIONS (Ramada Resort)

Room Planica A (Ramada) Planica B (Ramada) Ovalna 2 (Ramada) Ovalna 1 (Ramada) No room assigned
Track Metric Dimension Ver Colo / Gen VT Graphs / Gen General (chair Brešar) General
14:30 R. BAILEY MD of imprimitive distance-regular G N. LE The maximum set problems A. HUJDUROVIĆ Generalized Cayley graphs I. KANTOR Minimum difference representations of G
14:50 F. FOUCAUD Locating-dominating sets in twin-free G E. AKYAR Game chromatic nb of a Cartesian product G I. ESTÉLYI Which Haar graphs are Cayley graphs? J. BARÁT Partitioning 2-edge-colored Ore-type G by...
15:30 A. GONZÁLEZ Doubly resolvability, location and domi... H. KHACHATRIAN Interval edge colorings of Hamming graphs J. KOVIČ Cyclic codes and operations on graphs M. ABREU Tree-like Snarks

15:50 Coffee break (Ramada Resort)

16:30 SPORTS ACTIVITIES

21:00 SURVIVORS PARTY

2019 WELCOME BACK for the 9th Slovenian Conference on Graph Theory!