

# 9th Slovenian International Conference on Graph Theory, Bled 2019

BLED, SLOVENIA, JUNE 23 – JUNE 29, 2019

## PLENARY SPEAKERS:

- Noga Alon (*Princeton University, USA and Tel Aviv University, Israel*)  
Marco Buratti (*University of Perugia, Italy*)  
Gareth Jones (*University of Southampton, UK*)  
Daniel Král' (*Warwick University, UK and Masaryk University, Czech Republic*)  
Daniela Kühn (*University of Birmingham, UK*)  
Gábor Korchmáros (*University of Basilicata, Italy*)  
Sergei Lando (*National Research University Higher School of Economics, Russia*)  
János Pach (*EPFL, Lausanne and Rényi Institute, Hungary*)  
Cheryl E. Praeger (*University of Western Australia, Australia*)  
Zsolt Tuza (*Rényi Institute and University of Pannonia, Hungary*)  
Xuding Zhu (*Zhejiang Normal University, China*)

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

Organizing Committee: B. Brešar, S. Cabello, A. Hudurović, R. Požar

Organized by IMFM - Institute of Mathematics, Physics and Mechanics

in collaboration with Abelium d.o.o., DMFA, SDAMS, UL FMF, UM FNM, UP FAMNIT, UP IAM.

## INVITED SPECIAL SESSIONS:

- ASSOCIATION SCHEMES (M. MUZYCHUK)  
BIOMATHEMATICS AND BIOINFORMATICS (M. HELLMUTH)  
CHEMICAL GRAPH THEORY (X. LI)  
CONFIGURATIONS (G. GÉVAY)  
DESIGNS (D. CRNKOVIĆ)  
DISCRETE AND COMPUTATIONAL GEOMETRY (S. CABELLO)  
DISTANCE-REGULAR GRAPHS (Š. MIKLAVIČ)  
DOMINATION IN GRAPHS (M. HENNING)  
FINITE GEOMETRIES (T. SZÖNYI)  
GAMES ON GRAPHS (Cs. BÜJTÁS)  
GRAPH COLORING (I. SCHIERMEYER)  
METRIC GRAPH THEORY (I. G. YERO)  
POLYTOPES (A. IVIĆ WEISS)  
SPECTRAL GRAPH THEORY (F. BELLARDO)  
STRUCTURAL AND ALGORITHMIC GRAPH THEORY (P. ABOULKER)  
SYMMETRIES OF GRAPHS AND MAPS (M. CONDER)

	Rikli balance hotel Arnold Hall (all plenary talks of the day)
08:50	Opening remarks
09:00	DANIEL KRÁL': <i>Profiles of graphs and tournaments</i>
09:55	SERGEI LANDO: <i>Integrability property of polynomial graph invariants</i>

# **MONDAY, June 24**

# **9th Slovenian International Conference on Graph Theory, Bled 2019**

10:45 *Coffee (Hotel Kompas)*

	Rikli balance hotel Arnold Hall	Hotel Kompas Jezerska Hall	Hotel Kompas Triglavská+Grajska Hall	Hotel Lovec Panorama I	Hotel Lovec Panorama II	Hotel Kompas Blejska Hall	Hotel Kompas Riklijeva Hall
	SYMMETRIES OF G&M	SPECTRAL GT	DIST.-REG. GRAPHS	GENERAL GT	STRUCT. & ALGOR. GT	GENERAL GT	DESIGNS
11:15	L. MORGAN: The distinguishing number of 2-AT graphs and permutation groups...	M. ANDELIC: Tridiagonal matrices and spectral properties...	R. F. BAILEY: On distance-regular graphs on 486 vertices	G. RÁCZ: Generalized Lah numbers and their graph theoretical interpretation	M. KRNC: On the End-Vertex Problem of Graph Searches	F. HOERSCH: Highly vertex-connected orientations of regular eulerian graphs	A. POTT: Homogeneous cubic bent functions
11:35	M. PILŠNIAK: Distinguishing colorings of maps	A. ABIAD: A characterization and an application of weight-regular partitions of graphs	A. NEUMAIER: t-point counts in distance-regular graphs	G. NYUL: Various generalizations of Bell numbers	N. L. D. SINTIARI: Layered wheels	Y. SUZUKI: Partially Broken Orientations of Eulerian Plane Graphs	J. R. SCHMITT: Distinct partial sums in cyclic groups
11:55	R. KALINOWSKI: Symmetry breaking in claw-free graphs of small max degree	B. MIHAJOVIĆ: Some examples of transformations that preserve $\text{sgn}(\lambda_2 - r)$	H. SUZUKI: The universal C-cover of a completely regular clique graph	G. BACSÓ: The Equal-Sum-Free Subset problem	M. HECHT: Top. Invariants of Elem. Cycles and a Generalization of Biggs Thm	I. FABRICI: Circumference of essentially 4-connected planar graphs	O. OLMEZ: Partial Geometric Designs and Their Links

12:15 *Lunch (on your own)*

14:30 XUDING ZHU: *List colouring and Alon-Tarsi number of planar graphs*

*There should be no such thing  
as boring mathematics*

----- Edsger Dijkstra

15:20 *Coffee (Hotel Kompas)*

	<b>SYMMETRIES OF G&amp;M</b>	<b>SPECTRAL GT</b>	<b>GENERAL GT</b>	<b>GAMES ON GRAPHS</b>	<b>STRUCT. &amp; ALGOR. GT</b>	<b>GENERAL GT</b>	<b>DESIGNS</b>
15:50	P. POTOČNIK: Generalised voltage graphs	A. GAVRILYUK: On the multiplicities of digraph eigenvalues	M. DĘBSKI: Edge colorings avoiding patterns	J. GRYTCZUK: Choosability Games	M. MILANIČ: Avoidable Vertices, Edges, and Highly Symmetric Graphs	S. CICHACZ: Group distance magic hypercubes	D. CRNKOVIĆ: Self-orthogonal codes from block designs and ass. schemes
16:10	N. POZNANOVIC: Normal quotients of four-valent G-oriented graphs	C. DALFO: Spectrum and local spectra of a graph from its regular partitions	H. FURMAŃCZYK: Equitable list vertex colourability and arboricity of grids	É. SOPENA: A connected version of the graph coloring game	J. BEISEGEL: Maximum Weighted Clique in Hole-Cyclically Orientable Graphs	B. K. SAHOO: Vertex connectivity of the power graph of a finite cyclic group	R. EGAN: Complementary sequences and combinatorial structures
16:30	A. MALNIČ: Covers of digraphs	T. TANIGUCHI: A generalization of Hoffman Graph	M. MACEKOVÁ: Acyclic coloring of graphs with prescribed max avg degree	D. ŠTESL: Indicated coloring game on Cartesian products of graphs	E. KIM: Erdős–Pósa Property of Chordless Cycles and its Applications	M. GRECH: Wreath product of perm. groups as the autom. group of a graph	S. COSTA: Relative Heffter arrays and biembeddings

16:50 *Short break*

	<b>SYMMETRIES OF G&amp;M</b>	<b>SPECTRAL GT</b>	<b>GENERAL GT</b>	<b>GAMES ON GRAPHS</b>	<b>STRUCT. &amp; ALGOR. GT</b>	<b>GENERAL GT</b>	<b>DESIGNS</b>
17:00	D. CATALANO: Strong map-symmetry of $SL(3,K)$ and $PSL(3,K)$ for any finite field K	P. WISSING: The negative tetrahedron and ... graphs determined by H. spectrum	A. VESEL: Packing colorings of Sierpiński-type and H graphs	S. DANTAS: The Graceful Game	M. PIZAÑA: Algorithmic Aspects of the Finite Extension Problem	S. PAGANI: Discrete tomography: ... local uniqueness for two directions	A. WASSERMANN: On q-analogs of group divisible designs
17:20	D. PINTO: Duality and Chiral-Duality	A. FARRUGIA: Generating Pairs of Generalized Cospectral Graphs...	K. ANDO: Some new local conditions for k-contractible edges	D. B. WEST: The Slow-Coloring Game on a Graph	S. ONN: Deciding and Optimizing over Degree Sequences	B. ŽAK: Determination of the optimal ship trajectory in a collision situation...	A. PASOTTI: Odd sun systems of the complete graph
17:40	H. P. LUK: Tilings of the Sphere by Almost Equilateral Pentagons		D. LABBATE: Non bipartite regular 2-factor isomorphic graphs: an update	G. PULEO: Online Sum-Paintability: Slow-Coloring of Trees	S. HORVÁT: Exact random sampling of conn. graphs with a given deg. sequence	J. GARUS: Underwater vehicle trajectory planning using the graph theory...	S. BAN: New extremal Type II $Z_4$ -codes of length 32 from Hadamard designs

**18:00** *End of sessions*

**Reception at the Bled Castle** (walk or take a bus departing from Hotel Kompas at 18:10)

	Rikli balance hotel Arnold Hall (all plenary talks of the day)
09:00	NOGA ALON: <i>Random and quasi-random Cayley sum graphs with applications</i>
09:55	GARETH A. JONES: <i>Paley, Carlitz and the Paley Graphs</i>

TUESDAY, June 25

9th Slovenian International Conference  
on Graph Theory, Bled 2019

10:45 Coffee (Hotel Kompas)

	Rikli balance hotel Arnold Hall	Hotel Kompas Jezerska Hall	Hotel Kompas Triglavská+Grajska Hall	Hotel Lovčec Panorama I	Hotel Lovčec Panorama II	Hotel Kompas Blejska Hall	Hotel Kompas Riklijeva Hall
	POLYTOPES	GRAPH COLORING	DIST.-REG. GRAPHS	GAMES ON GRAPHS	GENERAL GT	GENERAL GT	FINITE GEOMETRIES
11:15	M. ROSENFELD: Branko Grünbaum, the mathematician who beat the odds	I. SCHIERMEYER: Polynomial chi-binding functions and forbidden ind. subgraphs	B. FERNÁNDEZ: On the Terwilliger Algebra of Locally Pseudo-DRG	CS. BUJTÁS: Domination and transversal games: Conjectures and perfectness	J. GOEDGEBOUR: Graphs with few Hamiltonian Cycles	M. HECHT: Tight Localisations of Minimal Feedback Sets in Cubic Time	L. DENAUX: Small weight code words from incidence of points and hyperplanes...
11:35	A. I. WEISS: Realizations of regular abstract polytopes in euclidean spaces	D. RALL: Packing chromatic vertex-critical graphs	S. PENJIĆ: A comb. approach to the Terwilliger algebra modules of a bipartite DRG	V. IRŠIČ: Some results on the connected domination game	J. ZERAFA: Hamiltonian cycles containing a prescribed perfect matching	G. Y. KATONA: Complexity questions for minimally t-tough graphs	S. ADRIAENSEN: ... Small Weight Code Words of Projective Geometric Codes
11:55	D. LEEMANS: Rank reduction of string C-group representations	J. FERME: Graphs that are critical for the packing chromatic number	Š. MIKLAVIČ: Irreducible T-modules with endpoint 1 of almost 1-homogeneous DRG	T. JAMES: Domination game on split graphs	D. MATTIOLI: Upper and lower bounds on the circular flow number of snarks	G. KUBICKI: An optimal algorithm for stopping on the element closest to ...	F. IHRINGER: New SDP Bounds on Subspace Codes

12:15 Lunch (on your own)

14:30	DANIELA KÜHN: <i>Resolution of the Oberwolfach problem</i>
-------	--

Beauty can be perceived but not explained.

----- Arthur Cayley

15:20 Coffee (Hotel Kompas)

	POLYTOPES	GRAPH COLORING	SPECTRAL GT	DOMINATION IN GRAPHS	DISC. COMP. GEOMETRY	STRUCT. & ALGOR. GT	DESIGNS
15:50	I. HUBARD: Geometric chiral polyhedra in 3-dimensional spaces	M. ANHOLCER: Majority coloring of infinite digraphs	Z. STANIČ: Notes on spectra of signed graphs	S. KLAVŽAR: The Maker-Breaker domination game	D. PÁLVÖLGYI: Polychromatic coloring of geometric hypergraphs	T. HUYNH: Unavoidable minors for graphs with large $l_p$ -dimension	V. KABANOV: Deza graphs with parameters $(v, k, k-2, a)$
16:10	J. BRACHO: A family of finite quiral polyhedra in $S^3$	B. LUŽAR: Homogeneous Coloring of Graphs	M. BRUNETTI: On Some Spectral Properties of Signed Circular Caterpillars	T. GOLOGRANC: On graphs with equal tot. dom. and Grundy tot. dom. number	M. SAUMELL: Hamiltonicity for convex shape Delaunay and Gabriel graphs	N. PIVAČ: Minimal separators in graph classes defined by small forb. ind. subgraphs	F. MEROLA: Cycle systems of the complete multipartite graph
16:30	M. CONDER: Chiral polytopes of arbitrarily large rank	R. ŠKREKOVSKI: Some results on unique-maximum colorings of plane graphs	AMBAT V.: The Distance Spectra of Some Graph Classes - A Survey	T. KOS: On the Grundy dominating sequences	G. LIOTTA: Bend-minimum Orthogonal Drawings	A. NEWMAN: Explicit 3-colorings for exponential graphs	A. ŠVOB: Self-orthog. codes from orbit matrices of Seidel and Laplacian mat. of SRG

16:50 Short break

	SYMMETRIES OF G&M	GRAPH COLORING	SPECTRAL GT	DOMINATION IN GRAPHS	DISC. COMP. GEOMETRY	STRUCT. & ALGOR. GT	DESIGNS
17:00	M. ŠIMAC: LDPC codes constructed from cubic symmetric graphs	X. LI: Monochromatic disconnection of graphs	B. MOHAR: About the smallest eigenvalue of non-bipartite graphs	B. BREŠAR: Graphs with a unique maximum open packing	D. BOKAL: Bounded degree conjecture ... for c-crossing-critical graphs with $c \leq 12$	P. ABOULKER: Subgraphs of directed graphs with large dichromatic number	M. O. PAVČEVIĆ: ... new t-designs acted upon nonab. automorphism groups
17:20	I. KOVÁCS: Groups all of whose Haar graphs are Cayley graphs	E. KUBICKA: Total coloring with min. sum of colors; existence of T-strong...	S. PAVLÍKOVÁ: Inverting non-invertible labeled trees	M. JAKOVAC: Relating the annihilation number and two domination invariants	A. VEGI KALAMAR: Counting Hamiltonian cycles in 2-tiled graphs	M. KRÉSZ: Uniquely restricted (g,f)-factors	T. VUČIČIĆ: Groups $S_n \times S_m$ in construction of flag-transitive block designs
17:40	P. ŠPARL: On loosely attached tetravalent half-arc-transitive graphs	J. PRZYBYŁO: The 1-2-3 Conjecture almost holds for regular graphs	K. L. PATRA: Laplacian eigenvalues of the zero divisor graph of the ring $\mathbb{Z}_n$	L. HERNANDEZ LUCAS: Dominating sets in finite generalized quadrangles	Y. KEMPNER: Spanoids, Greedoids and Violator Spaces	W. LOCHET: Immersion of transitive tournaments	T. TRAETTA: Pyramidal Steiner and Kirkman triple systems

18:00 End of sessions

## Hotel Kompas Jezerska Hall

09:00

**MARCO BURATTI:** *Cyclic designs: some selected topics***WEDNESDAY, June 26****9th Slovenian International Conference  
on Graph Theory, Bled 2019**

	Hotel Kompas Jezerska Hall	Hotel Kompas Triglavsko+Grajska Hall	Hotel Lovec Panorama I	Hotel Lovec Panorama II	Hotel Kompas Blejska Hall	Hotel Kompas Riklijeva Hall
	SYMMETRIES OF G&M	DIST.-REG. GRAPHS	METRIC GT	DISC. COMP. GEOMETRY	GAMES ON GRAPHS	GENERAL GT
09:55	M. BACHRATY: Skew morphisms of simple groups	P. TERWILLIGER: Leonard pairs, spin models, and distance-regular graphs	I. G. YERO: Uniquely identifying the vertices of a graph by means of distance multisets	H. R. TIWARY: Lower bounds for semantic read-once BDDs using Extension Complexity	A. PONGRÁCZ: Non-deterministic decision making on finite graphs	J. COOPER: Finitely forcible graph limits are universal
10:15	Y. S. KWON: Square roots of automorphisms of cyclic groups	S. BOCKTING-CONRAD: Tridiagonal pairs of Racah type and the univ. env. alg. $U(\mathrm{SL}_2)$	V. JUNNILA: On the Solid-Metric Dimension of a Graph	P. HLINĚNÝ: On Colourability of Polygon Visibility Graphs	D. PINTO: Replicator equations on graphs	C. LINDORFER: Ends of graphs and the language of self-avoiding walks

10:35 *Coffee (Hotel Kompas)*

	POLYTOPES	ASSOCIATION SCHEMES	DOMINATION IN GRAPHS	DISC. COMP. GEOMETRY	CONFIGURATIONS	GENERAL GT
11:00	M. E. FERNANDES: Locally spherical hypertopes	A. VASIL'EV: Closures of perm. groups and the isom. problem for schurian coherent config.	I. PETERIN: $[1, k]$ -domination number of lexicographic product of graphs	É. COLIN DE VERDIÈRE: Multicuts in planar and surface-embedded graphs	M. IZQUIERDO: Configurations and Dessins d'Enfants	B. PATKÓS: On the general position problem on Kneser graphs
11:20	C. A. PIEDADE: Possible degrees of Toroidal Regular Maps	P.-H. ZIESCHANG: Residually Thin Hypergroups	T. KRANNER ŠUMENJAK: On $k$ -rainbow independent domination in graphs	C. GAVOILLE: Shorter Implicit Representation for Planar Graphs	V. NAPOLITANO: Configurations and some classes of finite linear spaces	S. MAJSTOROVIĆ: Graphs preserving total distance upon vertex removal
11:40	G. WILLIAMS: Geometric realizability of simplicial 3-spheres	C. FRENCH: Hypergroup rings	A. TEPEH: On $k$ -rainbow total domination in graphs	S. CABELLO: Maximum Matchings in Geometric Intersection Graphs	A. ŽITNIK: Chiral astral realizations of cyclic 3-configurations	M. PIZAÑA: Cliques, Logic and Games

12:00 *Lunch (on your own)*

13:30	<b>Excursions / Free time</b> Book your excursion at the registration desk. Price of the excursion is <b>NOT INCLUDED</b> in your registration fee.
-------	--

**Postojna Cave and Predjama Castle.** Postojna Cave is the greatest tourist attraction in Slovenia. A fantastic web of tunnels and galleries, the astonishing diversity of Karst features as well as easy access are the main reasons for its popularity. Nearby, the picturesque and impregnable Predjama Castle has been perched in the middle of a 123-meter-high rocky cliff for over 800 years. The attractions are 100 kilometers away from Bled, or about 1,5 hrs drive by bus.

**Price:** **65 EUR** per person (includes entrance fees, organized transport and guided tours).

**Bus departure:** 13:30 SHARP from Hotel Kompas (be there earlier). Expected return to Bled: 20:00.



**Vintgar Gorge** or Bled Gorge is a spectacular 1.6-kilometer gorge a few kilometers from Bled. The gorge is carved by the Radovna River. A safe walking path upon wooden bridges on its shores takes the visitors along the beautiful alpine stream and its waterfalls.

Price: **35 EUR** per person (includes entrance fees, organized transport and guided tours)

**Bus departure:** 13:30 SHARP from Hotel Kompas (be there earlier).

Rikli balance hotel Arnold Hall (all plenary talks of the day)

09:00 JÁNOS PACH: *Many Pairwise Crossing Edges*

09:55 CHERYL E. PRAEGER: *Limited geodesic transitivity for finite regular graphs*

10:45 Coffee (Hotel Kompas)

**THURSDAY, June 27**

**9th Slovenian International Conference  
on Graph Theory, Bled 2019**

	Rikli balance hotel Arnold Hall	Hotel Kompas Jezerska Hall	Hotel Kompas Triglavsko+Grajska Hall	Hotel Lovčec Panorama I	Hotel Lovčec Panorama II	Hotel Kompas Blejska Hall	Hotel Kompas Riklijeva Hall
	SYMMETRIES OF G&M	GRAPH COLORING	SPECTRAL GT	METRIC GT	FINITE GEOMETRIES	CONFIGURATIONS	CHEMICAL GT
11:15	A. BREDA D'AZEVEDO: Regular bi-oriented maps of negative prime characteristic	J. BARÁT: Decomposition of cubic graphs related to Wegner's conjecture	W. IMRICH: The Structure of Quartic Graphs with Minimal Spectral Gap	T. LAIHONEN: On Resolving Several Vertices in a Graph	S. BALL: Maximum Distance Separable Codes: Recent advances and applications	G. GÉVAY: Exotic configurations	H. ZHANG: Anti-Kekulé number of graphs
11:35	T. DOBSON: Every 2-closed group of degree $qp^2$ has a semiregular element	M. ŚLESZYŃSKA-NOWAK: Strong cliques in graphs	P. RAMA: Spectral and comb. properties of lexicographic polynomials of graphs	M. MORA: k-Fault-tolerant resolving sets in graphs	M. LAVRAUW: MDS codes, arcs and tensors	M. RANEY: Trilateral matroids	S. BREZOVNIK: Resonance graphs of catacondensed even ring systems (CERS)
11:55	M. TOLEDO: Cubic graphs with long orbits	E. DRGAS-BURCHARDT: Consecutive colouring of oriented graphs	S.J. PINHEIRO: Erdős-Gallai type results on weighted degree sequences of graphs	E. YI: The fractional k-metric dimension of graphs	G. MARINO: Subspace code constructions	J. KOVIČ: Platonic configurations	Z. CHE: Resonance graphs of plane elementary bipartite graphs

12:15 Lunch (on your own)

14:30 GÁBOR KORCHMÁROS: *Permutation groups in the study of geometric structures*

The purpose of life is to conjecture and prove  
-----  
Paul Erdös

15:20 Coffee (Hotel Kompas)

	POLYTOPES	GENERAL GT	ASSOCIATION SCHEMES	METRIC GT	FINITE GEOMETRIES	BIOMATH & BIOINF	CHEMICAL GT
15:50	L. MONTEJANO: On the Geometric Banach Conjecture	D. OSTHUS: Decompositions into isomorphic rainbow spanning trees	A. MUNEMASA: Krein parameters of fiber-comm. coherent configurations	B. DASGUPTA: Comp. complexities of ... computing the metric anti-dimension...	J. D'HAESELEER: Projective solids pairwise intersecting in at least a line	R. JANSEN: Navigating the space of phylogenetic networks	P. DANKELMANN: On the Wiener Index of Eulerian Graphs
16:10	T. MARC: Oriented matroids as graphs	M. ELLINGHAM: The structure of 4-connected $K_{2,t}$ -minor-free graphs	J. VIDALI: On tight 4-designs in Hamming association schemes	Y. RAMÍREZ-CRUZ: Constr. incr. resolvability in dynamic graphs: a case study...	M. DE BOECK: Cameron-Liebler classes for finite geometries	G. SCHOLZ: Un-folding and folding-up phylogenetic networks	T. DOŠLIČ: Packing stars in fullerenes
16:30	E. MOCHAN: 2- orbit polytopes	G. FIJAVŽ: Forbidding prism immersions	S. SUDA: Linked systems of group divisible designs	A. KELENČ: Hausdorff Distance Between Trees in Polynomial Time	S. GLASBY: Classical groups and transitive actions on subspaces	D. DOERR: On the Comput. Hardness of Ancestral Genome Reconstructions	X. LI: The asymptotic value of energy for random graphs with degree-based weights

16:50 Short break

	POLYTOPES	GENERAL GT	ASSOCIATION SCHEMES	METRIC GT	FINITE GEOMETRIES	BIOMATH & BIOINF	CHEMICAL GT
17:00	D. PELLICER: Tight chiral abstract polytopes	F. LEHNER: On the cop-number of toroidal graphs	S. HUMPHRIES: Schur rings over infinite groups	C. X. KANG: The connected metric dimension at a vertex of a graph	Z. BLÁZSIK: Balanced upper chromatic number of $PG(2,q)$	M. LAFOND: Will we ever find a forb. subgraph characterization of leaf powers?	X. JIN: On the existence of some strong traces of graphs
17:20	A. MONTERO: Highly symmetric toroidal polytopes	A. NAKAMOTO: Vertex-face structures in quadrangulations on surfaces	G. SOMLAI: New family of CI-groups	M. L. PUERTAS: Bounding the determining number of a graph by removing twins	V. PEPE: A construction for clique-free pseudorandom graphs	N. NØJGAARD: Partial Homology Relations – Satisfiability in terms of Di-Cographs	M. KNOR: Bounding the Graovac-Pisanski index
17:40	S. WILSON: Rotary 4-Maniplexes having one facet	G. MAZZUOCOLO: Reduction of Berge-Fulkerson Conj. to cycl. 5-edge-conn. snarks	G. RYABOV: Infinite family of non-schurian separable association schemes	A. TARANENKO: On graphs achieving the trivial upper bound for edge metric dim.	S. MATTHEUS: Bipartite Ramsey numbers: $C_4$ versus the star	M. HELLMUTH: Best Match Graphs	M. SAHIN: Core partitions with d-distinct parts

18:00 End of sessions

Conference dinner, Avsenik  
(departure of buses at 18:30, Hotel Kompas)

## Hotel Kompas Jezerska Hall

FRIDAY, June 28

9th Slovenian International Conference  
on Graph Theory, Bled 2019

	Hotel Kompas Jezerska Hall	Hotel Kompas Triglavsko+Grajska Hall	Hotel Lovec Panorama I	Hotel Lovec Panorama II	Hotel Kompas Blejska Hall	Hotel Kompas Riklijeva Hall
	SYMMETRIES OF G&M	SPECTRAL GT	METRIC GT	CONFIGURATIONS	BIOMATH & BIOINF	CHEMICAL GT
09:55	R. NEDELA: Reductions of maps preserving the isomorphism relation I	J. WANG: On graphs whose spectral radius does not exceed the Hoffman limit value	D. KUZIAK: Metric and strong metric dimensions of direct product graphs	T. PISANSKI: The remarkable rhombic dodecahedron graph	L. HERBST: Trees on scales -- measures of balance for rooted binary trees	B. FURTULA: Novel method for measuring sensitivity of topol. descriptors on structural changes
10:15	P. ZEMAN: Reductions of maps preserving the isomorphism relation II	F. BELARDO: On some recent results of Slobodan K. Simić (1948-2019)	R. SIMANJUNTAK: Centroidal dimensions of product graphs	K. STOKES: Dualities, trialities, configurations and graphs	C.R. SEEMANN: The Matroid Structure of Repr. Triple Sets and Triple-Closure Computation	J. WANG: Median eigenvalues and HOMO-LUMO index of graphs

10:35 Coffee (Hotel Kompas)

	SYMMETRIES OF G&M	ASSOCIATION SCHEMES	DOMINATION IN GRAPHS	CONFIGURATIONS	BIOMATH & BIOINF	CHEMICAL GT
11:00	M. CONDER: Observations and answers to questions about edge-transitive maps	H. BLAU: Nilpotent commutative standard integral table algebras of order $p^3$	P. DORBEC: Reconfiguring and enumerating dominating sets.	L. BERMAN: Eventually, 5-configurations exist for all n	K. WICKE: Phylogenetics meets classic GT ... Hamiltonicity, GSP graphs and treebased networks	H. CHEN: The average Laplacian polynomial of a graph
11:20	G. A. JONES: Realisation of groups as automorphism groups of maps and hypermaps	A. HERMAN: Rationality for irreducible representations of ass. schemes of rank 6 and 7	M. A. HENNING: The independent domatic number and the total domatic number	J. BOKOWSKI: ... Symm. Polyh. Realizations without Self-Intersec. of Hurwitz's RM(3,7) <sub>18</sub> of Genus 7	A. FUJITA: Network Statistics on biological data analyses	J. SEDLAR: On combining Zagreb and Forgotten index to obtain better predictive power
11:40	R. G. MÖLLER: Infinite vertex-transitive graphs and their arc-types	I. PONOMARENKO: A characterization of some equivalenced ass. schemes	A. LAKSHMANAN S.: Double Roman Domination Number	M. SANIGA: Doily - A Gem of the Quantum Universe	S. ANTUNOVIĆ: Exponential generalised network descriptors	N. TRATNIK: Computing Distance-Based Topological Indices from Quotient Graphs
12:00	B. FAIRBAIRN: Some non-Beaumville groups: Why you should always pay attention...	M. MUZYCHUK: Non-commutative schemes of rank six and related objects	B. MARTÍNEZ-BARONA: Identifying codes in line digraphs	H. GROPP: On the early history of configurations	M.C. MOLINARI: Colored even cycle decompositions	P. ŽIGERT PLETERŠEK: Two topological indices applied on hydrocarbons

12:20 Lunch (on your own)

	SYMMETRIES OF G&M	GENERAL GT	GENERAL GT	GENERAL GT	GENERAL GT	FINITE GEOMETRIES
14:30	M. GIUDICI: Arc-transitive bicirculants	D. YE: Circuit Covers of Signed Graphs	S. BONVICINI: A variant of orthogonality for symmetric Latin squares	A. TYC: Z-knotted triangulations of surfaces	V. PALLOZZI LAVORANTE: AG codes from the second generalization of the GK maximal curve	B. CSAJBÓK: Generalising KM-arcs
14:50	C. KING: Edge-primitive 3-arc-transitive graphs	M. VIZER: On the Turán number of edge ordered graphs	M. ABREU: Orthogonal Array Configurations	M. PANKOV: Face z-monodromies in triangulations of surfaces	D. HAWTIN: s-Elusive Codes in Hamming Graphs	G. KISS: On resolving sets for the point-line incidence graph of PG(n,q)
15:10	A. MELEKOĞLU: Patterns of edge-transitive maps	C. XIAO: The Turán number of the square of a path	F. I. BECERRA LÓPEZ: Integer invar. of a graph manifold using Hirzebruch-Jung cont. fractions...	M. KWIATKOWSKI: Tree structured z-knotted triangulations of a sphere	S. VELDSMAN: Congruences and subdirect representations of graphs	T. SZÓNYI: On the stability of Baer subplanes

15:30 Coffee (Hotel Kompas) SYMMETRIES OF G&amp;M session continues in Hotel Kompas Jezerska Hall

16:00	M. MAČAJ: On external symmetries of Wilson maps	16:20 T. TUCKER: Surface Symmetry: Kulkarni Revisited	16:40 R. JAJCAY: Generalized Cayley maps
-------	---	---	--

17:00 End of sessions

Mathematics is the music of reason  
---- James J. SylvesterINT. ACADEMY OF MATH.  
CHEMISTRY 2019

2023

Welcome back for the  
10th Slovenian International Conference on Graph Theory, Bled 2023