

Changes to the printed abstract booklet schedule are marked in red

MONDAY 7 th DECEMBER				
8:45-9:00	Opening address (42-115)			
9:00-9:50	Gordon Royle <i>Graph homomorphisms, endomorphisms and cores.</i> (42-115) Chair - Bryant			
10:00-10:30	Morning Tea (67-2SLC)			
Contributed talk rooms	67-141 Chair - Semple	67-142 Chair - McLeod	67-342 Chair - Britz	67-343 Chair - Verret
10:30-10:55	James Oxley <i>Some results related to the critical problem for matroids.</i>	Kevin Hendrey <i>The extremal function for Petersen minors.</i>	Janne Kokkala <i>The chromatic number of the square of the 8-cube.</i>	Ben Smith <i>Hamilton decomposition of line graphs.</i>
11:00-11:25	Will Critchlow <i>The challenge of finding "random" matroids.</i>	David Wood <i>Layouts of expander graphs.</i>	Aiden Price <i>Deterministic construction of applied Tanner graphs with no short cycles.</i>	Matt Dean <i>On the Hamilton decomposability of vertex-transitive multigraphs.</i>
11:30-11:55	Yoshitaka Koga <i>Critical exponents of Dowling matroids.</i>	Sanming Zhou <i>Hadwiger's conjecture for the complements of Kneser graphs.</i>	Shunpei Yamaguchi <i>Codes from complete bipartite graphs and 3-regular graphs.</i>	Marston Conder <i>The 'arc-types' of vertex-transitive graphs.</i>
12:00-12:25	Maruti Shikare <i>On 3-connected es-splitting binary matroids.</i>	Brendan McKay <i>Some results on planar hypohamiltonian graphs.</i>	Daniel Hawtin <i>2-neighbour transitive codes.</i>	Nemanja Poznanović <i>Arc-types of Cayley graphs.</i>
12:30-14:00	Lunch			
14:00-14:50	Peter Cameron <i>Four precious jewels.</i> (42-115) Chair - Wanless			
15:00-15:30	Afternoon Tea (67-2SLC)			
Contributed talk rooms	67-141 Chair – Coulter	67-142 Chair - Zhou	67-342 Chair - Oxley	67-343 Chair - Hall
15:30-15:55	Daniel Horsley <i>Locating arrays and disjoint partitions.</i>	Anita Liebenau <i>What is Ramsey-equivalent to the clique?</i>	Kadin Prideaux <i>Identifying families of matroidal cyclic flats.</i>	Wannapol Pimpasalee <i>List backbone coloring of paths and cycles.</i>
16:00-16:25	Tzvetalin Vassilev <i>On certain sums involving the Legendre symbol.</i>	Daniel Harvey <i>Cycles of a given size in a dense graph.</i>	Andrew Probert <i>Does definability equal recognizability for hypergraphs?</i>	Pongpat Sittitrai <i>Characterization of uniquely $(2, t)$-list colourable for graphs with a subgraph $\theta_{p,q,1}$.</i>
16:30-16:55	Muhammad Surani <i>Balanced independent sets in $PG(n, q)$.</i>	Irene Pivotto <i>3-flows with large support.</i>	Chris Taylor <i>Algebras of incidence structures.</i>	Kiyoshi Yoshimoto <i>Rainbow cycles in edge-colored graphs.</i>
17:00-17:30	CMSA Annual General Meeting			

TUESDAY 8th DECEMBER

8:30-9:20	Nevena Francetić <i>Group divisible coverings and related structures. (42-115) Chair - Webb</i>			
Contributed talk rooms	67-141 Chair - Leopardi	67-142 Chair - Ramadurai	67-342 Chair - Conder	67-343 Chair - Greenhill
9:30-9:55	Bernhard Schmidt <i>Cyclotomic numbers and equations over finite fields.</i>	Ian Wanless <i>A notion of parity for MOLS.</i>	Wei-Juan Zhang <i>Constructions of chiral polytopes.</i>	Salem Alyami <i>A new version of the hit-and-run algorithm to sample graph spaces.</i>
10:00-10:25	Tomislav Burić <i>Asymptotic formulas for the binomial coefficients and the Catalan numbers.</i>	Trent Marbach <i>The enumeration of cyclic MNOLS.</i>	Mark Ioppolo <i>Flag and anti-flag transitive designs.</i>	Kevin Leckey <i>The path length of digital search trees under the Markov model.</i>
10:30-11:00	Morning Tea (67-2SLC)			
Contributed talk rooms	67-141 Chair – Maria	67-142 Chair - Isaev	67-342 Chair - Horsley	67-343 Chair - Vojtěchovský
11:00-11:25	Akira Kamibepu <i>On the fractional boxicity of graphs.</i>	Tan Tunzi <i>Min-max hypergraph partitioning and its application on rapid transit networks.</i>	Padraic Bartlett <i>Triangle decompositions of almost-complete graphs.</i>	Peter Ayre <i>Hypergraph coloring up to condensation.</i>
11:30-11:55	Nanao Kita <i>A new proof of the tight cut lemma.</i>	Florian Lehner <i>Cops, robbers, and infinite graphs.</i>	Rosalind Hoyte <i>Decomposing the complete graph with a hole into short cycles.</i>	Alessandra Graf <i>Percolation on random directed graphs.</i>
12:00-12:25	Jonathan Spreer <i>Separation index of graphs and stacked 2-spheres.</i>	Mireille Régnier <i>Profile of repetitions in random sequences.</i>	Alexia Lee <i>1-rotational solutions to the twofold Oberwolfach problem.</i>	Shohei Satake <i>Erdős-Rényi theory for asymmetric digraphs.</i>
12:30-14:00	Lunch			
14:00-14:50	Charles Semple <i>Counting Phylogenetic Networks. (42-115) Chair - Maenhaut</i>			
15:00-15:30	Afternoon Tea (67-2SLC)			
Contributed talk rooms	67-141 Chair – Liebenau	67-142 Chair - Donovan	67-342 Chair - Burton	67-343 Chair - Simanjuntak
15:30-15:55	Mikhail Isaev <i>New estimates for expectations of exponential functions and its application in analytic combinatorics.</i>	Rosemary Bailey <i>Circular designs with weak neighbour balance.</i>	Paul Cordue <i>Displaying and counting trees in a phylogenetic network.</i>	Shu-jiao Song <i>On edge-transitive tetravalent metacirculants.</i>
16:00-16:25	Paul Leopardi <i>Classifying bent functions by their Cayley graphs.</i>	Bridget Webb <i>Subsystems of Netto triple systems.</i>	Adam Mammoliti <i>The Erdős-Ko-Rado Theorem, generalisations and beyond.</i>	Timothy Wilson <i>Abelian square-free graph colouring.</i>
16:30-16:55	Juliana Sanches <i>Forbidding rainbow-colored stars.</i>	Jennifer Seberry <i>Cretan matrices.</i>	Bohao Yao <i>Barnette's Conjecture: finding induced trees.</i>	Muhammad Imran <i>On the metric dimension of wheel related graphs.</i>
17:30-19:00	Public Lecture – Jonathan Jedwab <i>What is a research mathematician? (Abel Smith lecture Theatre - Building 23)</i>			

WEDNESDAY 9th DECEMBER

9:00-9:50	<p style="text-align: center;">Saad El-Zanati <i>On decomposing regular graphs and multigraphs into isomorphic trees and forests.</i> (42-115) Chair - Horsley</p>
10:00-10:30	<p style="text-align: center;">Morning Tea (67-2SLC)</p>
11:00-17:30	<p style="text-align: center;">Conference Excursion St Helena Island Bus from Chancellor's Place</p>

THURSDAY 10th DECEMBER

8:30-9:20	Penny Haxell <i>Matchings in tripartite hypergraphs. (42-115) Chair - Wormald</i>		
Contributed talk rooms	67-141 Chair - Farr	67-342 Chair - Wanless	67-343 Chair - Harvey
9:30-9:55	Masoud Karimi <i>Adjacency spectrum of complete join of regular graphs.</i>	Darcy Best <i>Finding long transversals in Latin squares.</i>	Novi Herawati Bong <i>Maximum degree-diameter bounded subgraphs on Benes network.</i>
10:00-10:25	Ranjie Mo <i>Certificates of Tutte equivalence.</i>	Anna Taranenko <i>On transversals in multidimensional arrays.</i>	Rinovia Simanjuntak <i>Local metric dimension of subgraph-amalgamation of graphs.</i>
10:30-11:00	Morning Tea (67-2SLC)		
Contributed talk rooms	67-141 Chair – Bamberg	67-342 Chair - Herke	67-343 Chair - Cavenagh
11:00-11:25	Graham Farr <i>The history of Tutte-Whitney polynomials.</i>	Yasmeen Akhtar <i>Graph products and covering arrays.</i>	Howida Al Fran <b style="color: red; font-size: 1.5em;">CANCELLED
11:30-11:55	Kiki Ariyanti Sugeng <i>Some properties of antiadjacency matrix of directed graph.</i>	Xiao-Nan Lu <i>Existence and constructions of cyclic grid-block designs.</i>	Cyriac Grigoriu <i>On the partition dimension of circulant graphs.</i>
12:00-12:25	Michael Albert <i>Pattern matching in unions of two monotone sequences.</i>	Rakhi Singh <i>Optimal two-level choice designs for any number of choices sets.</i>	Sudeep Stephen <i>Power domination in de Bruijn and Kautz digraphs.</i>
12:30-14:00	Lunch		
14:00-14:50	Jonathan Jedwab <i>2048 ideas for turning combinatorial research into a game. (42-115) Chair - Wood</i>		
15:00-15:30	Afternoon Tea (67-2SLC)		
Contributed talk rooms	67-141 Chair – Glasby	67-342 Chair - Spreer	67-343 Chair - Best
15:30-15:55	John Bamberg <i>Bruck nets, metric planes, and their connections to other combinatorial objects.</i>	Clément Maria <i>Algorithms and complexity for Turaev-Viro invariants.</i>	Nicholas Cavenagh <i>Orthomorphisms in the cyclic group and trades in MOLS.</i>
16:00-16:25	Robert Coulter <i>Coordinatising projective planes using fields.</i>	Benjamin Burton <i>The hardness of simplifying triangulations.</i>	Reshma Ramadurai <i>On the distances between Latin squares.</i>
16:30-16:55	Gunter Steinke <i>Collineations of finite 2-affine planes.</i>	William Pettersson <i>Representing 3-manifolds as decompositions of graphs.</i>	Petr Vojtěchovský <i>Classifying linear quasigroups.</i>
18:30-23:00	Conference Dinner <i>Stamford Plaza, corner of Edward and Margaret Streets, Brisbane.</i>		

FRIDAY 11th DECEMBER

9:00-9:50	Catherine Greenhill <i>Sampling and counting using Markov chains. (42-115) Chair - McKay</i>		
10:00-10:30	Morning Tea (67-2SLC)		
Contributed talk rooms	67-141 Chair - Leckey	67-342 Chair – El-Zanati	67-343 Chair -
10:30-10:55	Nick Wormald <i>Uniform generation of random regular graphs.</i>	Diane Donovan <i>Latin hypercube sampling and the age of ground water.</i>	Stephen Glasby <i>Arc transitive digraphs with quasiprimitive vertex stabilizers.</i>
11:00-11:25	Jeanette McLeod <i>The switching-stable graphs.</i>	Joanne Hall <i>Skolem circles.</i>	Luke Morgan <i>A non-classification theorem for 2-arc-transitive graphs.</i>
11:30-11:55	Fatma Al-Kharousi CANCELLED	Sarada Herke <i>Ryser's conjecture for linear intersecting hypergraphs.</i>	Gabriel Verret <i>Vertex-primitive digraphs having vertices with almost equal neighbourhoods.</i>