Monday — Outline Programme

8.00 – 8.50	Registration	
8.50 – 9.00	Welcome Main Auditorium	
9.00 – 10.00	Plenary lecture Daniel Horsley Switching techniques for edge decompositions Main Auditorium	Chair: Bridget Webb
10.00 – 10.30	Coffee break	
10.30 – 11.15	Contributed talks	
11.15 – 12.15	Plenary lecture Rosemary Bailey Relations among partitions Main Auditorium	Chair: Simon Blackburn
12.15 – 12.20	Announcements	
12.20 – 1.45	Lunch	
1.45 – 3.00	Contributed talks	
3.00 – 3.30	Tea break	
3.30 – 6.00	Contributed talks	
7.00 – 8.00	Civic reception City Hall	

Contributed talks		Monday 10.30 – 11.15
Main Auditorium		Chair: Trent Marbach
10.30 – 10.50	Alia Sajjad Optimal incomplete block designs	
10.55 – 11.15	Douglas Stinson Optimal Ramp Schemes and Related Combina	torial Objects
Level 1 Auditorium		Chair: Gleb Nenashev
10.30 – 10.50	Sandra Kingan Characterizing excluded minor classes using th Theorem	ne Strong Splitter
10.55 – 11.15	Criel Merino Extremal multicomplexes	

Contributed talks		Monday 1.45 – 3.00
Auditorium A		Chair: Susana-Clara López
1.45 – 2.05	Ann Trenk Finding Balance: Split Graphs and Related C	lasses
2.10 – 2.30	Elizabeth Jonck (1,1,2,3)-Colourings of Subcubic Graphs	
2.35 – 2.55	Liam Harris Domination and Independence of Bishop Great	aphs
Auditorium B		Chair: Vincent Vajnovszki
1.45 – 2.05	Nicola Pace On the existence and construction of PD-set	s for linear codes
2.10 – 2.30	Simon Blackburn Non-overlapping codes	
2.35 – 2.55	Diane Donovan Difference covering arrays delivering high re	ate LDPC codes

1.45 – 2.05 Kiyoshi Ando A new forbidden subgraph for 5-contractible edges 2.10 – 2.30 Tariq Chishti On mark sequences in bipartite multidigraphs 2.35 – 2.55 Kai Siong Yow Tutte Invariants for Alternating Dimaps Level 1 Auditorium Chair: Anum Khal 1.45 – 2.05 Michael Weiner Rational Dyck paths and factor-free Dyck words 2.10 – 2.30 Svante Linusson Inverse of the Pak-Stanley bijection for k-Shi arrangement		
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Conference Room 6 Chair: Jessica McDona 1.45 – 2.05 Sergey Kitaev Crown graphs and their representation numbers 2.10 – 2.30 Morimasa Tsuchiya On strict-double-bound numbers of graphs and cut sets 2.35 – 2.55 Rinovia Simanjuntak	1.45 – 2.05	
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On strict-double-bound numbers of graphs and cut sets 2.35 – 2.55 Rinovia Simanjuntak	1.45 – 2.05	· .
-	2.10 – 2.30	•
	2.35 – 2.55	

Contributed talks	Monday 3.30 – 5.30
Auditorium A	Chair: Terry Griggs
3.30 – 3.50	Anna Taranenko On transversals in intercalated latin squares and in the Cayley table of the group ${f Z}_2^m$
3.55 – 4.15	Trent Marbach Intersection of transversals in the Latin square B_n , with applications to Latin trades
4.20 – 4.40	Anthony Hilton A variation of Ryser's theorem for partial (v_1, \dots, v_n) -latinized squares
4.45 – 5.05	Ian Wanless Partial latin squares that embed in an infinite group but not into any finite group
5.10 – 5.30	Vladimir Potapov Construction of Pairs of Orthogonal Latin Cubes

Auditorium B	Chair: Eoin Long
3.30 – 3.50	Mikhail Isaev
	Subgraph counts for dense graphs with specified degrees
3.55 – 4.15	Peter Allen
	A simple proof of Shamir's conjecture
4.20 - 4.40	Jack Bartley
	The emergence of the square of a Hamilton cycle in random geometric
	graphs
4.45 – 5.05	Fiona Skerman
	Inversions in random node labelings of random trees
5.10 - 5.30	Shohei Satake
	Erdös-Rényi Theory for asymmetric tournaments
5.35 – 5.55	Izolda Gorgol
	On lower bound for induced Ramsey numbers
Auditorium C	Chair: Carl Johan Casselgren
3.30 - 3.50	Jan van den Heuvel
	Improper Colourings inspired by Hadwiger's Conjecture
3.55 – 4.15	Daniel Quiroz
	Colouring exact distance graphs of chordal graphs
4.20 - 4.40	Martin Škoviera
	Smallest snarks with oddness 4
4.45 – 5.05	Edita Máčajová
	Snarks that cannot be covered with four perfect matchings
5.10 – 5.30	Jason Brown
	Recent Results on Chromatic Polynomials
5.35 – 5.55	Vadim Levit
	Violator spaces vs closure spaces
Level 1 Auditorium	Chair: Alex Burstein
3.30 - 3.50	Sergi Elizalde
	The structure of the consecutive pattern poset
3.55 – 4.15	Christian Bean
	Creating a Virtual Combinatorist
4.20 - 4.40	Yan Zhuang
	Shuffle-Compatible Permutation Statistics
4.45 – 5.05	Brian Miceli
	Statistics on Set Partitions
5.10 - 5.30	Shishuo Fu
	On 1212-avoiding Restricted Growth Functions
5.35 – 5.55	Klas Markström
	Condorcet domains and Turán type problems for permutations

Conference Room 6	Chair: David Roberso
3.30 – 3.50	Soňa Pavlíková Negatively invertible graphs
3.55 – 4.15	Kiki Sugeng On Antiadjacency Matrix Properties
4.20 – 4.40	Shariefuddin Pirzada On the sum of Laplacian spectra of graphs
4.45 – 5.05	Ferenc Bencs Some results on the roots of the independence polynomial of graphs
5.10 – 5.30	Yotsanan Meemark Perfect state transfer in Cayley graphs over finite chain rings
5.35 – 5.55	Robert Bailey A database of distance-regular graphs

Tuesday — Outline Programme

9.00 – 10.00	Plenary lecture Julia Böttcher Large-scale structures in random graphs Main Auditorium	Chair: David Bevan
10.00 – 10.30	Coffee break	
10.30 – 11.15	Contributed talks	
11.15 – 12.15	Plenary lecture Robert Morris Monotone cellular automata Main Auditorium	Chair: Keith Edwards
12.15 – 12.20	Announcements	
12.20 – 1.45	Lunch	
1.45 – 3.00	Mini-symposia	
3.00 – 3.30	Tea break	
3.30 – 5.00	Mini-symposia	
5.00 – 6.00	BCC business meeting Level 1 Auditorium	
7.00 – 9.00	Concert Level 1 Auditorium	Compère: Thomas Selig

Tuesday

Contributed talks	Tuesday 10.30 – 11.15
Main Auditorium	Chair: Liam Harris
10.30 – 10.50	Jessica Enright Adversarial games on interval and permutation graph representations
10.55 – 11.15	Laura Mančinska Quantum and non-signalling graph isomorphism
Level 1 Auditorium	Chair: Yoshimi Egawa
10.30 – 10.50	Susana-Clara López Characterizing path-like trees from linear configurations
10.55 – 11.15	Behrooz Bagheri Gh. Compatible Cycle Decomposition of bad K ₅ -minor-free eulerian graphs
Mini-symposia	Tuesday 1.45 – 3.00 & 3.30 – 5.00
Auditorium A	Chair: Andrew Treglown
Emerging methods in	n Extremal Combinatorics
1.45 – 1.50	Introduction
1.50 – 2.20	Peter Keevash Forbidden vector-valued intersections
2.25 – 2.55	Mathias Schacht The three edge theorem
3.30 – 4.00	Daniel Král' Uniqueness of optimal configurations in extremal combinatorics
4.05 – 4.35	Jan Hladký Tilings in graphons
4.40 – 5.00	Eoin Long (contributed talk) Tournament Quasirandomness from counting

Tuesday

Auditorium B	Chair: Jan van den Heuvel
Graph Colouring	
1.45 – 1.50	Introduction
1.50 – 2.20	Maya Stein Cycle partitioning in hypergraphs
2.25 – 2.55	Jessica McDonald List edge-colouring graphs with restricted odd cycles
3.30 – 4.00	Marthe Bonamy Tight lower bounds for the complexity of multicoloring
4.05 – 4.35	Maria Axenovich Planar graphs - improper colorings and coverings with induced forests
4.40 – 5.00	Carl Johan Casselgren (contributed talk) Coloring graphs from random lists
Auditorium C	Chair: Sergey Kitaev
Patterns in Permut	ations and Words
1.45 – 1.50	Introduction
1.50 – 2.20	Vincent Vajnovszki The equidistribution of some descent set based statistics on words
2.25 – 2.55	Jeff Remmel Block Patterns in Generalized Euler Permutations and the Generalized Cluster Method
3.30 – 4.00	Alexander Burstein Unimodal inversion sequences and pattern-avoiding classes
4.05 – 4.35	Bruce Sagan Descent and peak polynomials
4.40 – 5.00	David Bevan (contributed talk) Prolific permutations and permuted packings

Wednesday — Outline Programme

9.00 – 10.00	Tutte Centenary Lecture Graham Farr W. T. Tutte: Graph theory as he had grown it Main Auditorium	Chair: Iain Moffatt
10.00 – 10.30	Coffee break	
10.30 – 11.15	Contributed talks	
11.15 – 12.15	Plenary lecture Julia Wolf Some Applications of Relative Entropy in Additive Co	Chair: Kitty Meeks
12.15 – 12.20	Announcements	
12.20 – 1.45	Lunch	
1.00 – 7.00	Excursion to Culzean Castle	

Wednesday

Contributed talks	Wednesday 10.30 – 11.15
Main Auditorium	Chair: Allan Lo
10.30 – 10.50	Terry Griggs Pentagonal Geometries
10.55 – 11.15	Sandro Rajola On maximal partial ovoids of the elliptic quadric $Q^-(5,q)$ of $PG(5,q)$
Level 1 Auditorium	Chair: Nicholas Korpelainen
10.30 – 10.50	Anum Khalid Counting Generalised Dyck Paths
10.55 – 11.15	Boris Granovsky Asymptotic enumeration by Khintchine-Meinardus probabilistic method: Necessary and sufficient conditions for exponential growth

Thursday — Outline Programme

9.00 – 10.00	Plenary lecture Benny Sudakov Robustness of graph properties Main Auditorium	Chair: David Manlove
10.00 – 10.30	Coffee break	
10.30 – 11.15	Contributed talks	
11.15 – 12.15	Plenary lecture Gi-Sang Cheon New applications of Riordan arrays Main Auditorium	Chair: Sergey Kitaev
12.15 – 12.20	Announcements	
12.20 – 1.45	Lunch	
1.45 – 3.00	Contributed talks	
3.00 – 3.30	Tea break	
3.30 – 5.10	Contributed talks	
5.10 – 6.00	Open problem session Level 1 Auditorium	Chair: Peter Cameron
6.30 – 10.30	Conference dinner Barony Hall	

Contributed talks		Thursday 10.30 – 11.15
Main Auditorium		Chair: Tomas Nilson
10.30 – 10.50	Maura Paterson Nonexistence results for strong external difference.	rence families
10.55 – 11.15	Aleen Sheikh The Davenport constant of finite abelian grou	ıps
Level 1 Auditorium		Chair: Sandra Kingan
10.30 – 10.50	Gleb Nenashev <i>Hypergraphical Matroids</i>	
10.55 – 11.15	Andrzej Żak Generalized transversals, generalized vertex o tolerance in graphs	covers and node-fault-

Contributed talks		Thursday 1.45 – 3.00
Auditorium A		Chair: David Bevan
1.45 – 2.05	Sophie Huczynska <i>Graph classes under homomorphic image order</i>	
2.10 – 2.30	David Roberson <i>Homomorphisms of Strongly Regular Graphs</i>	
2.35 – 2.55	Rueiher Tsaur Contractibility of Graphs	
Auditorium B		Chair: Bruce Sagan
1.45 – 2.05	Jakub Sliačan Juxtaposing Catalan permutation classes with mo	onotone ones
2.10 – 2.30	Timothy Alland Pattern Avoidance and Fiber Bundle Structures or	n Schubert Varieties
2.35 – 2.55	Dominic Searles Stanley symmetric functions and the slide produc compositions	t on weak

Auditorium C	Chair: Soňa Pavlíkov
1.45 – 2.05	James Tuite Diregularity of extremal networks
2.10 – 2.30	James Fraser Automorphisms of the Gómez Graphs
2.35 – 2.55	Grahame Erskine Large Cayley graphs of diameter three
Level 1 Auditorium	Chair: Ian Wanle
1.45 – 2.05	Noam Zeilberger Some bridges between lambda calculus and graphs on surfaces
2.10 – 2.30	lain Moffatt The Tutte polynomial and its extensions
2.35 – 2.55	Jozef Širáň Regular and bi-rotary maps of negative prime Euler characteristic
Conference Room 6	Chair: Cian O'Brie
1.45 – 2.05	Rachel Quinlan Counting matrices over finite fields
2.10 – 2.30	Viktor Zamaraev Specifying a positive threshold function via extremal points
2.35 – 2.55	Nicholas Korpelainen Variations on parking functions

Contributed talks	Thursday 3.30 – 5.10
Auditorium A	Chair: Anthony Hilton
3.30 – 3.50	Yujie Gu Bounds on traceability schemes
3.55 – 4.15	Casey Tompkins An upper bound on the size of diamond-free families of sets
4.20 – 4.40	Jie Zheng Bounds of the sizes of families with uncomplemented and mutually incomparable conditions
4.45 – 5.05	Adam Mammoliti The Erdös-Ko-Rado Theorem, Generalisations and Beyond

Auditorium B	Chair: David Pike
3.30 – 3.50	Allan Lo Designs beyond quasirandomness
3.55 – 4.15	Peter Cameron Synchronization, association schemes and Steiner systems
4.20 – 4.40	Andrea Burgess Colourings of group divisible designs
4.45 – 5.05	Tomas Nilson A new family of triple arrays
Auditorium C	Chair: Julia Böttcher
3.30 – 3.50	Andrew Treglown An improved lower bound for Folkman's Theorem
3.55 – 4.15	Robert Johnson Ramsey Problems for Odd Cycles
4.20 – 4.40	Johannes Hattingh Some multicolor bipartite Ramsey numbers involving cycles and a small number of colors
4.45 – 5.05	Robert Hancock Independent sets in hypergraphs and Ramsey properties of graphs and the integers
Level 1 Auditorium	Chair: Rachel Quinlan
3.30 – 3.50	Olga O'Mahony Edge-minimal graphs of exponent 2
3.55 – 4.15	Cian O'Brien Alternating Signed Bipartite Graphs
4.20 – 4.40	Jonas Granholm Some cyclic properties of graphs with a local Ore-type condition
4.45 – 5.05	Khawaja Fahd Shortest Path in Inner Dualist of Hexagonal Graph

Conference Room 6	Chair: Fiona Skerman
3.30 – 3.50	Kitty Meeks The parameterised complexity of computing the maximum modularity of a graph
3.55 – 4.15	Paul Ouvrard Dominating set reconfiguration
4.20 – 4.40	HongPhong Pham Tropical paths in vertex-colored graphs
4.45 – 5.05	David Tankus <i>Generating subgraphs in chordal graphs</i>

Friday — Outline Programme

9.00 – 10.00	Plenary lecture Bill Chen The spt-Function of Andrews Main Auditorium	Chair: Peter Cameron
10.00 – 10.30	Coffee break	
10.30 – 11.15	Contributed talks	
11.15 – 12.15	Richard Rado Lecture Vít Jelínek Ramsey-Type Problems in Permutations Main Auditorium	Chair: Sophie Huczynska
12.15 – 12.20	Close of conference	
12.20 – 1.45	Lunch	

Friday

Contributed talks	Friday 10.30 – 11.15
Main Auditorium	Chair: Andrea Burgess
10.30 – 10.50	David Pike Twofold triple systems with 2-intersecting Gray codes
10.55 – 11.15	Bridget Webb Countably infinite homogeneous STS
Level 1 Auditorium	Chair: Behrooz Bagheri Gh
10.30 – 10.50	Yu-Fong Hsu All graphs with degree 0 or 4 whose complements have 4-cycle systems
10.55 – 11.15	Yoshimi Egawa Path-factors and odd components