CanaDAM 2023

Tao Gaede

June 4, 2023

Contents

1 Monday:

1.1 Morning

8:30 IS (MET): Hypergraphs, topology and resource allocation. Matchings in hypergraphs using topological methods.

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10:00 CM24 (1L04): Second largest eigenvalue of trees. Extremal trees of order n and diameter d that maximize second largest eigenvalue. Probably relevant my work on distances in trees.

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10:30 IM2: Intersecting families of sets are typically trivial. Improved bound $k > k_0$ for k-intersecting families whereby the families tend to be stars (trivial). Interesting to get background on intersecting families. While stars may be common, what types of intersecting families are uncommon? Is there a common uncommon intersecting family, or do we not know much about the uncommon ones? Maybe get a better sense for what other structure is needed to make them applicable to tone networks.

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***11:00 CM24:** Packings of Partial Difference Sets. Might be over my head, but I'm curious about difference sets.

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***11:00 CT:** The exact threshold for zero sum cycles in complete diagraphs. They find the exact smallest number n such that for every Zq - arc labelling of a complete digraph of order n, there is a directed cycle whose arc labels sum to 0. I feel like this could have relevence to handling distance summation issues that arrise in edge-labelled graphs.

11:30 IM2: The Burning Number Conjecture holds asymptotically. The burning number refers to smallest k such that a graph G of order n can be covered by balls of radii 0, 1, ..., k. This interval of radii condition is slightly similar to the interval multiplicity condition in crescent configurations. Perhaps there's overlap.

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Things to look into

Timetable

Sunday Evening, June 4, 2023

19:30–23:00	**Registration and Informal Gathering, Tavern United**	**345 Graham Ave.**

Registration materials available only until 9:30pm.
(Those attending have the option of purchasing food and beverages.)

Monday Morning, June 5, 2023

8:00–8:20	**Registration**		
8:20–8:30	**Welcome remarks**		
8:30–9:25	IS	**Penny Haxell (University of Waterloo)** "Hypergraphs, topology and resource allocation"	MET
9:30–10:00	**Walk to U of W Coffee Break**		
10:00–12:30	IM	**IM1: Games and Learning** Simina Brânzei and Ruta Mehta, Organizers [Hartline, Panageas, *Poster Session*, Hajiaghayi, Gergatsouli]	1L13 Lockhart Hall
	IM	**IM2: Combinatorics and Algebra** Alexey Pokrovskiy, Organizer [Noel, Li , Ogden, Turcotte, Behague]	1L12 Lockhart Hall
	IM	**IM11: Structural Graph Theory** Sang-il Oum and Sebastian Wiederrecht, Organizers [Wollan, Kurkofka, Kreutzer, Wiederrecht, Yoo]	1L11 Lockhart Hall
	CM	**CM24: Trends in Association Schemes** Allen Herman, Organizer [Kumar, Klawuhn, Li, Seong, Herman]	1L04 Lockhart Hall
	CT	**Contributed Talks** Homomorphisms and Minors [MacGillivray, Kidner, Brewster, Krill, Chaniotis]	1L06 Lockhart Hall
	CT	**Contributed Talks** Number Theory and Algebraic Connections [Bright, Karam, Hendrey, Park, ___]	1L07 Lockhart Hall
		Free Working Space	1M28
12:30–14:00	**Lunch**		
12:30–13:15	**ICA AGM (1L12 Lockhart Hall)**		

- The Registration desk will be open 8am-6pm on June 5 and 9:00am-3:30pm on June 6-8 in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Refreshments (coffee, tea, water and something to eat) will be served twice a day (9:30am - 10:00am and 3:00pm - 3:30pm) on each day of the conference in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Annual General Meeting of the Institute of Combinatorics and its Applications 12:30pm-1:15pm in 1L12 Lockhart Hall.
- Welcoming Reception, 6:30pm-8:30pm, Riddell Hall and Atrium. (FYI, the reception includes one free drink and passed canapés but it is not a full dinner.)

1.2 Afternoon

2:00 IS (MET): A random Hall-Paige Conjecture. About transversals in group multiplication tables. Uses probabilistic methods.

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3:30 CM13 (1L11): Turan and Ramsey-type problems for affine structures. I haven't seen a lot of this before, but it involves some extremal questions on finite fields, which seems interesting.

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4:00 CM21 (1L08): The one-visibility localization game. To get my feet wet in some cops and robbers. The robber is invisible, and a set of cops try to find the location of the robber.

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4:30 CM20 (1L07): A balancing act on matrices. Integer matrices and decompositions. I'm curious about graph decomposition problems and I'm interested to learn more about properties of integer matrices.

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5:00 CT (1L06): Graph-theoretical questions arising from DNA self-assembly. Presents combinatorial representations of DNA structures, which could give me a better sense for how to link my interest in biochemistry with combinatorics and graph theory.

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5:30 CM13 (1L11): Unit and distinct distances in typical norms. Directly related to Erdos distinct distances problem in the plane.

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Things to look into

Monday Afternoon, June 5, 2023

12:30–14:00	**Lunch**		
14:00–14:55	IS	**Alexey Pokrovskiy (University College London)** “A random Hall-Paige Conjecture”	MET
15:00–15:30	**Walk to U of W Coffee Break**		
15:30–18:00	IM	**IM4: Discrete Mathematics in Quantum Information Processing** Markus Grassl and Petr Lisonek, Organizers [Nemec, Dastbasteh, Amirzade, López, Yard]	1L04 Lockhart Hall
	CM	**CM12: Computer-Assisted Mathematics** Curtis Bright, Organizer [Codel, Kaplan, Rampersad, Brysiewicz, Stevens]	1L13 Lockhart Hall
	CM	**CM13: Extremal Combinatorics and Beyond** Jonathan Noel, Organizer [Frederickson, Spiro, Mani, Lee, Bucić]	1L11 Lockhart Hall
	CM	**CM20: Movement and Symmetry in Graphs** Venkata Raghu Tej Pantangi and Mahsa N. Shirazi, Org [Nir, Ahmad , Dukes, Clifton, Shirazi]	1L07 Lockhart Hall
	CM	**CM21: Pursuit-Evasion Games on Graphs** JD Nir, Brittany Pittman, Trent Marbach, Organizers [S. Finbow, Molnar, Marcoux, Virgile, Ojakian]	1L08 Lockhart Hall
	CT	**Contributed Talks** Random Graphs / Biology & Chemistry [Šámal, Ahn, Selig, Ferrari, Slobodin]	1L06 Lockhart Hall
		Free Working Space	1M28
18:30–21:00	**Welcoming Reception (6:30pm-8:30pm, Riddell Hall and Atrium)**		

- The Registration desk will be open 8am-6pm on June 5 in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Refreshments (coffee, tea, water and something to eat) will be served 3:00pm - 3:30pm in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Welcoming Reception, 6:30pm-8:30pm, Riddell Hall and Atrium. (FYI, the reception includes one free drink and passed canapés but it is not a full dinner.)

2 Tuesday:

2.1 Morning

8:30 IS (MET): Sampling and high-dimensional expansion

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***10:00 CT (1L06):** Time delayed Cops and Robber.

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***10:00 CM22 (1L04):** Perfect state transfer on trees with small diameter. Maybe I'll learn something about quantum information theory.

***10:30 CM22 (1L04):** Classes of trees without perfect state transfer. More QIT.

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***10:30 IM9 (1L12):** Combinatorial characterization of the exact rank of sparse random matrices. What is the rank of the adjacency matrix of G(n,p)?

***10:30 CT (1L06):** Perfect 1-factorisations of hypergraphs.

11:00 CT (1L06): Large k-sparse sets in triangle-free graphs.

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11:30 CT (1L06): On the decomposability of codes with embedded (6L-2, 2L, L)-designs.

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12:00 (1L06): Subdivision and adjacency spectra of graphs. Subdividing a subset of edges of a graph, and proving things about the eigenvalues of the adjacency matrix for the resulting graph. The sequence St of the k-th eval for the graph with subdivision lengths t, is shown to be Cauchy. It could be interesting to see some analysis relating to graphs.

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Things to look into

Tuesday Morning, June 6, 2023

8:30–9:25	IS	**Nima Anari (Stanford University)** “Sampling and high-dimensional expansion”	MET
9:30–10:00		**Walk to U of W Coffee Break**	
10:00–12:30	IM	**IM1: Games and Learning** Simina Brânzei and Ruta Mehta, Organizers [Kleinberg, Chowdhury, *Poster Session*, Derakhshan, Vlatakis]	1L13 Lockhart Hall
	IM	**IM6: Extremal and Probabilistic Combinatorics** Felix Joos, Organizer [Bohman, Garbe, Morrison, Gao, Hancock]	1L08 Lockhart Hall
	IM	**IM7: Generalizations of the Chromatic Polynomial** Farid Aliniaeifard and Steph van Willigenburg, Org [___ , A. Foley, Orellana, S. Wang, Sagan]	1L07 Lockhart Hall
	IM	**IM9: Random Matrix Theory and Connections** Vishesh Jain, Organizer [Michelen, Glasgow, Benigni, O’Rourke, ___]	1L12 Lockhart Hall
	IM	**IM11: Structural Graph Theory** Sang-il Oum and Sebastian Wiederrecht, Organizers [Kim, Liu, Spirkl, Steiner, Gollin]	1L11 Lockhart Hall
	CM	**CM22: Quantum Information on Graphs** C. van Bommel, H. Monterde, S. Kim, X. Zhang, Org [Kirkland, van Bommel, Monterde, S. Kim, *Problem Session*]	1L04 Lockhart Hall
	CT	**Contributed Talks** Assorted Topics [Clarke, Mitchell, Gimbel, Esfahani, Pragada]	1L06 Lockhart Hall
		Free Working Space	1M28
12:30–14:00		**Lunch**	
12:45–13:45		**Networking Luncheon for those identifying as women (1L07)**	

- The Registration desk will be open 9:00am-3:30pm on June 6 in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Refreshments (coffee, tea, water and something to eat) will be served 9:30am - 10:00am in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Networking Luncheon for those identifying as women: 12:45pm-1:45pm, 1L07. (Click here for details.)

2.2 Afternoon

2:00 IS (MET): On the simplex method and diameter of 0/1 polytopes

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***3:30 IM10 (1L12):** Complexes of nearly maximum diameter.

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***3:30 CM21 (1L08):** Firefighting with a distance-based restriction.

***4:00 (1L06):** Distance-preserving graph compression techniques. Might provide insight on how to add/remove edges of trees while minimizing changes in distance multiplicities.

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***4:00 CM21 (1L08):** A two player graph burning game.

4:30 CM21 (1L08): Extending graph burning to hypergraphs.

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5:00 CM21 (1L08): Herding cats stuck in trees.

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5:30 CM21 (1L08): The watchman's walk problem on Cayley graphs.

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Things to look into

Tuesday Afternoon, June 6, 2023

12:30–14:00	**Lunch**		
14:00–14:55	IS	**Laura Sanità (Bocconi University)** "On the simplex method and diameter of 0/1-polytopes"	MET
15:00–15:30	**Walk to U of W Coffee Break**		
15:30–18:00	IM	**IM4: Discrete Mathematics in Quantum Information Processing** Markus Grassl and Petr Lisonek, Organizers [Martin, Bors, Slofstra, Trandafir, Bright]	1L04 Lockhart Hall
	IM	**IM10: Random Structures and Random Processes** Jane (Pu) Gao and Xavier Pérez Giménez, Organizers [Bohman, Dudek, Bennett, Molloy, Michaeli]	1L12 Lockhart Hall
	CM	**CM15: Graph Structure: Algorithms and Complexity** Kathie Cameron, Organizer [K. Cameron, Sintiari, LaGrange, Belavadi, Suzan]	1L13 Lockhart Hall
	CM	**CM17: Graphs and Matroids** Jim Geelen, James Oxley, Zach Walsh, Organizers [Funk, McGuinness, Campbell, Grace, Rivera Omaña]	1L11 Lockhart Hall
	CM	**CM20: Movement and Symmetry in Graphs** Venkata Raghu Tej Pantangi and Mahsa N. Shirazi, Org [Morris, Dueck, Aliniaeifard, Pantangi, Yip]	1L07 Lockhart Hall
	CM	**CM21: Pursuit-Evasion Games on Graphs** JD Nir, Brittany Pittman, Trent Marbach, Organizers [Burgess, Kellough, Jones, Ashmore, Howell]	1L08 Lockhart Hall
	CT	**Contributed Talks** Dimension, Density, and Distance [Caoduro, Madani, ____ , R. Wang, ____]	1L06 Lockhart Hall
		Free Working Space	1M28
18:00	**Conference Photo, Wesley Hall entrance (6pm sharp!)**		
18:30–20:30	**Student & Postdoc Networking Dinner, (Riddell Hall)**		

- The Registration desk will be open 9:00am-3:30pm on June 6 in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Refreshments (coffee, tea, water and something to eat) will be served 3:00pm - 3:30pm in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Conference Photo, 6:00pm (sharp) on the stairs at the Wesley Hall entrance. (In case of inclement weather, please report instead to Leatherdale Hall.)
- Networking Dinner for Students and Postdocs, 6:30pm-8:30pm, Riddell Hall

3 Wednesday:

3.1 Morning

8:30 IS (MET): The sharp power law of local search on expanders.
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10:00 CM16 (1L11): Separating the edges of a graph by a linear number of paths.
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10:30 CM16 (1L11): Improved bounds for cross-Sperner systems.
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11:00 IM9 (1L12): A simple and sharper proof of the hypergraph Moore bound.
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***11:30 IM6 (1L08):** The existence of subspace designs.
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***11:30 CM16 (1L11):** Invertibility of digraphs and tournaments.

12:00 CT (1L06): Rainbow 3-partite graphs.
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Things to look into

Wednesday Morning, June 7, 2023

8:30–9:25	IS	**Simina Brânzei (Purdue University)** "The sharp power law of local search on expanders"	MET
9:30–10:00		**Walk to U of W Coffee Break**	
10:00–12:30	IM	**IM1: Games and Learning** Simina Brânzei and Ruta Mehta, Organizers [Vetta, Golowich, *Poster Session*, Mehta, Kulkarni]	1L13 Lockhart Hall
	IM	**IM6: Extremal and Probabilistic Combinatorics** Felix Joos, Organizer [Pfenninger, Kelly, Mohar, Sah, Joos]	1L08 Lockhart Hall
	IM	**IM7: Generalizations of the Chromatic Polynomial** Farid Aliniaeifard and Steph van Willigenburg, Org [Crew, V. Wang, McDonald, Kaul, Dahlberg]	1L07 Lockhart Hall
	IM	**IM9: Random Matrix Theory and Connections** Vishesh Jain, Organizer [Zhu, Leake, Hsieh, Sawhney, *Problem Session*]	1L12 Lockhart Hall
	CM	**CM16: Graphs and Hypergraphs: Probabilistic, Structural, and Extremal Results** Natasha Morrison, Organizer [Botler, Wright, Smith-Roberge, Savery, Heath]	1L11 Lockhart Hall
	CM	**CM22: Quantum Information on Graphs** C. van Bommel, H. Monterde, S. Kim, X. Zhang, Org [Feder, Goff, Sobchuk, Zhan, ___]	1L04 Lockhart Hall
	CT	**Contributed Talks** Colouring, Domination, and Genus [Beaton, Carr, Clow, Contreras-Mendoza, Czygrinow]	1L06 Lockhart Hall
		Free Working Space	1M28
12:30–14:00		**Lunch**	
12:30–13:15		**ICA Medal Awards Ceremony, Room 1L12 Lockhart Hall**	

- The Registration desk will be open 9:00am-3:30pm on June 7 in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Refreshments (coffee, tea, water and something to eat) will be served 9:30am - 10:00am in the hallway of Lockhart Hall adjacent to the breakout rooms.
- ICA Medal Awards Ceremony: 12:30pm-1:15pm, in Room 1L12 Lockhart Hall.

3.2 Afternoon

2:00 IS (MET): Quadratic forms and clique-free graphs.
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***3:30 IM3 (1L07):** New results on skew and strong frame starters in cyclic groups.
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***3:30 IM8 (1L08):** A colorful Borsuk-Ulam theorem.

***3:30 CT (1L06):** Using alternating de Bruijn sequences to generate de Bruijn tori.

4:00 CT (1L06): Avoiding additive powers in words.
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4:30 CT (1L06): Structural characterization of connected graphs with integer-valued Q-spectral radius.
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5:00 IM3 (1L07): Value distributions of perfect nonlinear functions.
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5:30 IM8 (1L08): Rigidity expander graphs.
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Things to look into

Wednesday Afternoon, June 7, 2023

12:30–14:00	**Lunch**		
14:00–14:55	IS	**Ferdinand Ihringer (Universiteit Gent)** "Quadratic forms and clique-free graphs"	MET
15:00–15:30	**Walk to U of W Coffee Break**		
15:30–18:00	IM	**IM3: Design Theory and Coding Theory** Thaís Bardini Idalino, Jonathan Jedwab, Shuxing Li, Org [Stinson, Nelson, Gu, Kölsch, Stevens]	1L07 Lockhart Hall
	IM	**IM8: Geometric Combinatorics** R. Amzi Jeffs, Organizer [Wellner, Bezdek, Simon, Liu, Lew]	1L08 Lockhart Hall
	IM	**IM10: Random Structures and Random Processes** Jane (Pu) Gao and Xavier Pérez Giménez, Organizers [Warnke, Arman, Gunderson, Makai, MacRury]	1L12 Lockhart Hall
	CM	**CM15: Graph Structure: Algorithms and Complexity** Kathie Cameron, Organizer [Hoàng, Robin, B. Cameron, Hajebi, Hernández-Cruz]	1L13 Lockhart Hall
	CM	**CM17: Graphs and Matroids** Jim Geelen, James Oxley, Zach Walsh, Organizers [Bowler, Gut, Singh, Kim, van der Pol]	1L11 Lockhart Hall
	CM	**CM18: Many Perspectives on Hopf Algebras in Combinatorics** Karen Yeats, Paul Balduf, Lucas Gagnon, Organizers [van Willigenburg, Balduf, Olson-Harris, Huang, *Discussion*]	1L04 Lockhart Hall
	CT	**Contributed Talks** Combinatorics on Words and Connections [Kreitzer, Mol, Pervin, Zaguia, ____]	1L06 Lockhart Hall
		Free Working Space	1M28
18:30–19:15	**Public Lecture Reception MET**		
19:30–20:30	**Laura A. Albert (University of Wisconsin) MET**		

- The Registration desk will be open 9:00am-3:30pm on June 7 in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Refreshments (coffee, tea, water and something to eat) will be served 3:00pm - 3:30pm in the hallway of Lockhart Hall adjacent to the breakout rooms.
- We will have a reception prior to the public lecture. This will begin at 6:30pm at the Metropolitan Entertainment Centre, 281 Donald Street. (The reception will include a free drink and some passed canapés, but not dinner.)
- Public Lecture: ***"How discrete optimization helps us tackle our world's biggest challenges"*** by Laura Albert (University of Wisconsin), Metropolitan Entertainment Centre, 281 Donald Street, beginning at 7:30pm.

4 Thursday

4.1 Morning

8:30 IS (MET): Catalanimals.

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10:00: CM19 (1L12): The threshold strong dimension of a graph.

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***10:30 CM14 (1L08):** Approximative cycle double cover.

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***10:30 CM19 (1L12):** On the threshold strong dimension of the n-cube.

11:00 CM19 (1L12): Metric dimension parameterized by feedback vertex set and other structural parameters.

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11:30 CM19 (1L08): Metric dimension of growing infinite graphs.

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***12:00 CM16 (1L11):** Enumerating graphic sequences.

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***12:00 CM14 (1L08):** Some new results on vertices belonging to all metric bases.

Things to look into

Thursday Morning, June 8, 2023

8:30–9:25	IS	**Jennifer Morse (University of Virginia)** "Catalanimals"	MET
9:30–10:00		**Walk to U of W Coffee Break**	
10:00–12:30	IM	**IM5: Emerging Tools and Applications of Mixed-Integer Optimization** Sonia Cafieri, Organizer [___, Bastin, Bourguignon, Cafieri, ___]	1L13 Lockhart Hall
	CM	**CM14: Flows, Colourings, and Decompositions** B. Moore, E. Smith-Roberge, M. Kroeker, Organizers [Nurse, Ghanbari, Wdowinski, Turner, Dhawan]	1L08 Lockhart Hall
	CM	**CM16: Graphs and Hypergraphs: Probabilistic, Structural, and Extremal Results** Natasha Morrison, Organizer [Martins, Johnston, Kathapurkar, Hyde, Donderwinkel]	1L11 Lockhart Hall
	CM	**CM19: Metric Dimension and its Variants: Structural and Algorithmic Results** Beth Novick and Nadia Benakli, Organizers [Eroh, Novick, Mc Inerney, Biro, Laihonen]	1L12 Lockhart Hall
	CM	**CM22: Quantum Information on Graphs** C. van Bommel, H. Monterde, S. Kim, X. Zhang, Org [Tamon, Shi, Lippner, Zhang, McLaren]	1L04 Lockhart Hall
	CT	**Contributed Talks** Data,Communities and Clustering [Berenhaut, Darling, J. Foley, Arora, Kumari]	1L06 Lockhart Hall
		Free Working Space	1M28
12:30–14:00		**Lunch**	
12:45–13:45		**EDI Discussion, (1L07)**	

- The Registration desk will be open 9:00am-3:30pm on June 8 in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Refreshments will be served 9:30am - 10:00am in the hallway of Lockhart Hall adjacent to the breakout rooms.
- The EDI Luncheon, a discussion on effective initiatives to promote Equity, Diversity and Inclusion, will occur at 12:30pm on Thursday June 8th in Room 1L07 of Lockhart Hall, University of Winnipeg.

4.2 Afternoon

2:00 IS (MET): Poset inequalities

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3:30 IM3 (1L07): Small difference sums for dense packings.

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4:00 IM3 (1L07): Generalisations of bipartite graph designs.

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***4:30 IM3 (1L07):** Intersecting sets of uniform partitions.

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***4:30 CM23 (1L13):** Monochromatic sums and products over the rationals.

***5:00 IM3 (1L07):** Extending difference matrices over abelian p-groups.

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***5:00 IM8 (1L08):** A positive answer to Barany's question on face numbers of polytopes.

***5:30 IM3 (1L07):** Cover-free families on hypergraphs.

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***5:30 CM23 (1L13):** Off-diagonal poset Ramsey numbers.

Things to look into

Thursday Afternoon, June 8, 2023

12:30–14:00	**Lunch**		
14:00–14:55	IS	**Igor Pak (UCLA)** “Poset inequalities”	MET
15:00–15:30	**Walk to U of W Coffee Break**		
15:30–18:00	IM	**IM3: Design Theory and Coding Theory** Thaís Bardini Idalino, Jonathan Jedwab, Shuxing Li, Org [Colbourn, Paterson, Meagher, Wiebe, Moura]	1L07 Lockhart Hall
	IM	**IM8: Geometric Combinatorics** R. Amzi Jeffs, Organizer [Jiang, Richter, ___ , Hinman, Jeffs]	1L08 Lockhart Hall
	IM	**IM10: Random Structures and Random Processes** Jane (Pu) Gao and Xavier Pérez Giménez, Organizers [Efthymiou, Huang, Jagannath, Müller, ___]	1L12 Lockhart Hall
	CM	**CM17: Graphs and Matroids** Jim Geelen, James Oxley, Zach Walsh, Organizers [Carmesin, Kroeker, Valencia-Porras, ___ , ___]	1L11 Lockhart Hall
	CM	**CM18: Many Perspectives on Hopf Algebras in Combinatorics** Karen Yeats, Paul Balduf, Lucas Gagnon, Organizers [Estupiñán, Thiem, Bastidas, Gagnon, ___]	1L04 Lockhart Hall
	CM	**CM23: Ramsey Theory** Joseph Hyde, Organizer [Martins, Naia, Ivan, Pavez-Signé, Winter]	1L13 Lockhart Hall
18:00	**End of CanaDAM 2023**		

- The Registration desk will be open 9:00am-3:30pm on June 8 in the hallway of Lockhart Hall adjacent to the breakout rooms.
- Refreshments (coffee, tea, water and something to eat) will be served 3:00pm - 3:30pm in the hallway of Lockhart Hall adjacent to the breakout rooms.