

Conference Schedule: Details

Room locations: BA = Bahen Centre

MS = Medical Sciences building. See campus map.

Thursday, July 10 th		
Time	Speaker and Title	Room
9:00-9:40	Berekat, Farzin: <i>Equality of Ribbon Schur Q-Functions</i>	BA 2130
	Cylwa, Michelle and Hurajit, Laura: <i>Transient Probabilities for M/M/1/c queue via path counting (Queueing theory)</i>	BA 2135
	Bélanger-Rioux, Rosalie: <i>Spectrum and expansion of biregular graphs</i>	BA 2139
	Guillon, AJ: <i>Pi Calculus</i>	BA 2145
	Li, Janet: <i>Fractals and Dimension</i>	BA 2165
9:50-10:30	Turner, Graeme: <i>A glance at Invariant Rings of Permutation Groups</i>	BA 2130
	Proulx, Louis-Xavier: <i>En route vers le chaos</i>	BA 2135
	Wei, Yehua: <i>The Steiner Tree Problem in Graphs</i>	BA 2139
	Crooks, Peter: <i>A complex-analytic approach to proving the fundamental theorem of algebra</i>	BA 2145
	Hahn, Ezra: <i>Farey Sequences and Ford Circles</i>	BA 2165
10:50-11:15	Pouliot, Benoît: <i>Méthode de redimensionnement d'images</i>	BA 2130
	Bridgeman, Leila: <i>Why Airplanes Fly: A Brief Introduction to Fluid Dynamics</i>	BA 2135
	Ross, Carol: <i>An Introduction to Metric Geometry and Length Structures</i>	BA 2139
	Armstrong, Devon: <i>Optimization of the Czochralski method for InSb crystal growth</i>	BA 2145
	Mallet-Paret, Julie: <i>Kasiski and Friedman attacks as a means to decode Vigenere ciphers</i>	BA 2165
11:30-12:30	KEYNOTE SPEAKER Bergeron, Nantel: <i>Le Monde des permutations</i>	MS 2172
13:30-14:10	Rippel, Oren: <i>An Introduction to Fluid Mechanics</i>	BA 2130
	Glynn-Adey, Parker: <i>Numeration Systems</i>	BA 2135
	Fan, Wei: <i>Summation</i>	BA 2139
	Alfaisal, Faisal: <i>The invariant subspace problem</i>	BA 2145

Thursday, July 10 th (cont.)		
14:20-14:45	Hannigan-Daley, Brad: <i>Generalized abstract nonsense</i>	BA 2130
	Razy, Alissa: <i>Toto, I have a feeling we're not in Kansas anymore: Understanding Tornadoes</i>	BA 2135
	Grewal, Gurleen: <i>A game theoretic perspective on peer-to-peer systems: Incentives and payoffs</i>	BA 2139
	Campbell, Natalie: <i>Sign Pattern Analysis and Classification</i>	BA 2145
	Haley, Charlotte: <i>The Stirling Numbers of the second kind, Multinomial Coefficients, and a Generalized Pascal's Triangle.</i>	BA 2165
15:00-16:00	KEYNOTE SPEAKER Barbeau, Edward: <i>From student to retired professor: perspectives on a half-century of mathematics</i>	MS 2172
16:10-16:35	Moscovici, Jonathan: <i>Doughnut Go In There: Symmetry Groups and Dehn Fillings</i>	BA 2130
	Pavlovski, Mark: <i>P-ordering and its Connection to Integer Valued Polynomials</i>	BA 2135
	Evans, Julia: <i>A foray into algebraic graph theory</i>	BA 2139
	Buono, Pietro-Luciano: <i>Graduate Studies in Modelling and Computational Science at UOIT</i>	BA 2145
16:40-17:05	Vinogradova, Polina: <i>Groups Acting on Trees</i>	BA 2130
	Woodard, Katherine: <i>Fibonacci Numbers and the Binet Formula</i>	BA 2135
	Wong, Margaret: <i>How to Count with Burnside's Lemma</i>	BA 2139
	Hanz, Paul: <i>Optimal Design of a Biolistic Gene-Particle Delivery System</i>	BA 2145

Friday, July 11 th		
Time	Speaker and Title	Room
9:00-9:40	Mann, Kathryn: <i>An Introduction to Cut and Paste Topology</i>	BA 1160
	Teeple, Brett: <i>Differential Galois theory applied to mathematical physics</i>	BA 2130
	Raymond, Annie: <i>the Small Chyatal Rank of Fractional Polytopes</i>	BA 2135
	Fortier Bourque, Maxime: <i>Higher-order pseudospectra</i>	BA 2139
		BA 2145
9:50-10:30	Cheng, Oliver: <i>the Mathematics of Juggling</i>	BA 1160
	Leithead, Alexander: <i>Bases of the Weyl Module</i>	BA 2130
	Motamedi, Sina: <i>Incompleteness – why Godel is misunderstood</i>	BA 2135
		BA 2139
	Gollinger, William: <i>When is a 3-sphere not a 3-sphere?</i>	BA 2145
10:50-11:15	Dos Remedios, Arron: <i>Online Algorithms for Multi-Unit Auctions with Unknown Supply</i>	BA 1160
	Roy, Christian: <i>Attack of the Tyranotorus : An overview of torus-based cryptography</i>	BA 2130
	Younsi, Malik: <i>Banach algebras and the exponential spectrum</i>	BA 2135
	Bomers, Victor: <i>Probabilistic inference on ChIP-sequencing: A statistical approach to modelling genome-wide maps of chromatin states</i>	BA 2139
	Sharpe, Malcom: <i>Good integral solutions to feasible network flow problems</i>	BA 2145
11:30-12:30	KEYNOTE SPEAKER Keyfitz, Barbara: <i>Analysis and modeling with nonlinear partial differential equations; or how I became resigned to waiting at traffic lights</i>	BA 1160
14:00-14:40	Halacheva, Iva: <i>Reidemeister's theorem and more on knots</i>	BA 1160
	Pawliuk, Michael: <i>Amenable groups and Folner nets</i>	BA 2130
	Barrett, Taylor: <i>Total Positivity of Matricies</i>	BA 2135
	Crump, Iain: <i>Graph Convexities and Elimination Orderings</i>	BA 2139
	Wang, Yu: <i>On a simple intrinsic proof of Gauss-Bonnet thoerem</i>	BA 2145

Friday, July 11 th (cont.)		
14:45-15:10	Su, Phoebe: <i>Mathematics and Metaphysics</i>	BA 1160
	Karp, Steven: <i>Forbidden Configurations</i>	BA 2130
	Chouldechova, Alexandra: <i>Lies and Statistics</i>	BA 2135
	Nikolaev, Nikita: <i>On the Equation of Continuity and the Dynamics of Continuous Media</i>	BA 2139
	Lang, Alex: <i>Introduction to the untyped lambda calculus</i>	BA 2145
15:25-15:50	Chambers, Gregory: <i>Dividing a Cake without Envy</i>	BA 1160
	Cerezo, Richard: <i>'Models and Bifurcations'</i>	BA 2130
	Sadanand, Chandrika: <i>Group theory and Rubik's cubes</i>	BA 2135
	Hwang, Doki and Gregson, Matthew: <i>The Sky is Falling</i>	BA 2139
	Barriault, Michael: <i>Numerical Methods for Boundary Condition Problems</i>	BA 2145
15:55-16:35	Chan, Vincent: <i>Equivalents of the Axiom of Choice</i>	BA 1160
	May, Terri: <i>The strong metric dimension of distance-hereditary graphs</i>	BA 2130
	Tsang, Jeffrey: <i>Evolved Art, Planetary Motion and Dynamical Systems</i>	BA 2135
	Cheng Paul/Du, Tom: <i>Mathematics of Voting</i>	BA 2139
	Parkinson, Robert: <i>an Introduction to Morse Theory</i>	BA 2145
16:40-17:20	Christoff, Michael: <i>Algebraic Topology and Distributed Computing</i>	BA 1160
	Bazdell, Gary: <i>Introduction to design theory</i>	BA 2130
	Martel, Justin Harry: <i>Some transcendental Sums (or how you know a number)</i>	BA 2135
	Dixon, Kael: <i>An introduction to differential forms and integration</i>	BA 2139
	Lipka, Chester: <i>An introduction to matroids and Rota's conjecture</i>	BA 2145

Saturday, July 12th

Time	Speaker and Title	Room
9:00-9:40	Su, Yi: <i>Random Graph Theory.</i>	BA 1160
	Decker, Colin: <i>Polynomial Approximation</i>	BA 2130
	Tichon, Jenna: <i>Random Graphs and the Probabilistic Method</i>	BA 2135
	Szestopalow, Michael: <i>Pairwise Independence and the Max Cut Problem</i>	BA 2139
	Lafleur, Olivier: <i>An interesting decomposition of $GL(2, \mathbb{Q})$</i>	BA 2145
9:50-10:30	Mistry, Shilan: <i>the Hausdorff Measure</i>	BA 1160
	Chlebovec, Christopher: <i>Sums of Cantor Sets</i>	BA 2130
	Lamont, Stacey: <i>Graph Reconstruction</i>	BA 2135
	Sanders, Yuval: <i>An introduction to quantum entanglement</i>	BA 2139
	Carphin, Philippe: <i>Escher-Droste</i>	BA 2145
10:50-11:15	Dart, Bradley: <i>Loops, Rings, and Other Things</i>	BA 1160
	Sabelnykova, Veronica: <i>Predicting the mutation of Influenza A virus</i>	BA 2130
	Boutilier, Joe: <i>Chemometrics applications to the multivariate calibration of overlapped 1H NMR spectra of complex mixtures</i>	BA 2135
	St-Onge, Alexandre: <i>Euclidean and Hyperbolic Geometries</i>	BA 2139
	Fortier, Jérôme: <i>Contemplating Incompleteness</i>	BA 2145
11:30-12:30	KEYNOTE SPEAKER Holroyd, Alexander: <i>Is seeing believing? Cellular automata in theory and experiment.</i>	BA 1160