

WEDNESDAY APRIL 29 – MORNING SESSION – PRAIRIE MATHEMATICS MEETING

7:45 am	BREAKFAST: in the Foyer of ESB (Edwards School of Business)		
8:30 am	PLENARY TALK IN STATISTICS Paul Gustafson, University of British Columbia <i>What are the limits of inferences from lousy data, and why should we care?</i> ESB Room 18 (Goodspeed Theatre, Edwards School of Business)		
9:30 am	COFFEE BREAK: in the Foyer of ESB (Edwards School of Business)		
10am–12pm	CELL BROADBAND ENGINE WORKSHOP: THORV S311 (INDUSTRIAL AND COMPUTATIONAL MATHEMATICS)		
10:00 am	PURE MATHEMATICS ESB Room 18 Serban Belinschi <i>Evolution towards free infinite divisibility</i>	APPLIED MATHEMATICS ESB Room 3 Jacek Szmigielski <i>The story of peakons</i>	STATISTICS ESB Room 16 Mik Bickis <i>On the distribution of frequencies of oligopeptides</i>
10:30 am	Chenkuan Li <i>The distributional products on spheres and Pizetti's formula</i>	Samuel Butler <i>Modelling fluid flow in compacting porous media: application to melt transport in earth's mantle</i>	Juxin Liu <i>Bayesian analysis of a matched case-control study with misclassified binary data</i>
11:00 am	Ebrahim Samei <i>Operator amenability and Arens regularity of Beurling-Fourier algebras of <math>SU(2)</math></i>	Motassem Al-Arydah <i>Proving the existence of a positive bounded weak solution for a system of nonlinear PDEs in a domain with a triple phase boundary</i>	Rong Zhu <i>The generalized Poisson-inverse Gaussian family and its application to heavy-tailed count data</i>
11:30 am	Eric Schippers <i>Interactions between conformal field theory and complex function theory</i>	Hugo Rodriguez Ordonez <i>Hopf invariants and the Lusternik-Schnirelmann category</i>	Xulin Guo <i>Statistics on remote sensing monitoring program</i>
12:00 noon	LUNCH BREAK: in the Exeter Room of Marquis Hall		

# WEDNESDAY APRIL 29 – AFTERNOON SESSION – PRAIRIE MATHEMATICS MEETING

1:30 pm	PLENARY TALK IN INDUSTRIAL AND COMPUTATIONAL MATHEMATICS Michael Perrone, IBM T. J. Watson Research Center <i>The end of the lazy programmer: challenges of multicore computing</i> ESB Room 18 (Goodspeed Theatre, Edwards School of Business)			
2:30 pm	COFFEE BREAK: in the Foyer of ESB (Edwards School of Business)			
3pm–5pm	CELL BROADBAND ENGINE WORKSHOP: THORV S311 (INDUSTRIAL AND COMPUTATIONAL MATHEMATICS)			
	PURE MATHEMATICS ESB Room 18	APPLIED MATHEMATICS ESB Room 3	STATISTICS ESB Room 16	
3:00 pm	Clint Enns <i>Product and co-product for topological modules</i>	Daryl Geller <i>Spin wavelets on the sphere</i>	Lisa Lix <i>Quality of administrative health data: a statistical perspective</i>	
3:30 pm	Doug Farenick <i>On the homotopy groups of real, complex, and quaternionic pseudospheres</i>	Rainer Dick <i>Dimensionally hybrid Green's functions, density of states, and impurity scattering in low-dimensional systems</i>	Melody Gharamani <i>On combining estimating functions for volatility models</i>	
4:00 pm	David Klein <i>Fundamental groupoids and moduli spaces of flat connections</i>	Dinesh Singh <i>Effects of space-time curvature on spin-1/2 particle Zitterbewegung</i>	Tolulope Sajobi <i>Multiple testing procedures in the presence of non-normality and covariance heterogeneity</i>	
4:30 pm	Salma Kuhlmann <i>An uncountable family of logarithmic functions with distinct growth rates</i>	Masoud Ghezellbash <i>Kerr/CFT correspondence</i>	Xikui Wang <i>Statistics applied in finance and economics</i>	
5:00 pm	Murray Marshall <i>Positive polynomials and sums of squares</i>	Artur Sowa <i>On the noncommutative Schrödinger equation</i>		

THURSDAY APRIL 30 – MORNING SESSION – PRAIRIE MATHEMATICS MEETING

7:45 am	BREAKFAST: in the Foyer of ESB (Edwards School of Business)		
8:30 am	PLENARY TALK IN PURE MATHEMATICS Yuri Bahturin, Memorial University of Newfoundland <i>Actions of maximal growth</i> ESB Room 18 (Goodspeed Theatre, Edwards School of Business)		
9:30 am	COFFEE BREAK: in the Foyer of ESB (Edwards School of Business)		
10am–12pm	CELL BROADBAND ENGINE WORKSHOP: THORV S311 (INDUSTRIAL AND COMPUTATIONAL MATHEMATICS)		
10:00 am	PURE MATHEMATICS ESB Room 18 Jaydeep Chipalkatti <i>On equations defining general binary orbits</i>	APPLIED MATHEMATICS ESB Room 3 George Patrick <i>Towards better understanding the behaviours of rattlebacks</i>	STATISTICS ESB Room 16 Winfried Grassmann <i>Infinite dimensional banded stochastic matrices</i>
10:30 am	Andrew Douglas <i>Lie-Yamaguti structures on the simple <math>\mathfrak{sl}_3(\mathbb{C})</math>-modules <math>V(n, n)</math></i>	Dessalegn Yizengaw Melesse <i>Lyapunov functions</i>	Steve Kirkland <i>Eigenvalues and the scrambling index for stochastic matrices</i>
11:00 am	Hader Elgendy <i>Algebra structures on the fourth exterior power of a simple <math>\mathfrak{sl}_2(\mathbb{C})</math>-module</i>	Alexei Cheviakov <i>Computation and applications of local conservation laws</i>	Guichang Zhang <i>Some properties of nonhomogeneous Poisson processes and their applications</i>
11:30 am	Allen Herman <i>Examples of representations of Hecke algebras over <math>\mathbb{Q}</math> that produce division algebras</i>	Chary Rangacharyulu <i>Some symmetries and invariances in nuclear and particle physics</i>	Mahshid Atapour <i>Exponential growth of the number of n-edge linked clusters in <math>\mathbb{Z}^3</math> and the consequences in entanglement percolation</i>
12:00 noon	LUNCH BREAK: in the Exeter Room of Marquis Hall		

THURSDAY APRIL 30 – AFTERNOON SESSION – PRAIRIE MATHEMATICS MEETING

1:30 pm	PLENARY TALK IN APPLIED MATHEMATICS Alexandre Zagoskin, Loughborough University <i>Quantum engineering: taming the Schrödinger cat</i> ESB Room 18 (Goodspeed Theatre, Edwards School of Business)		
2:30 pm	COFFEE BREAK: in the Foyer of ESB (Edwards School of Business)		
3pm–5pm	CELL BROADBAND ENGINE WORKSHOP: THORV S311 (INDUSTRIAL AND COMPUTATIONAL MATHEMATICS)		
	PURE MATHEMATICS ESB Room 18	APPLIED MATHEMATICS ESB Room 3	STATISTICS ESB Room 16
3:00 pm	Jiaxiong Hu <i>Lie invariants in the natural representations of <math>\mathfrak{sl}(2)</math> and <math>\mathfrak{sl}(3)</math></i>	Chandra Nath Podder <i>Mathematical study of the role of gametocytes and an imperfect vaccine on malaria transmission dynamics</i>	Richard K. Bowles <i>The jamming landscape for confined hard disks</i>
3:30 pm	Delaram Kahrobaei <i>Applications of non-abelian group theory in cryptography</i>	Oluwaseun Y. Sharomi <i>Reinfection-induced backward bifurcation in the transmission dynamics of Chlamidia trachomatis</i>	Mark Wurtz <i>Effect of multiple Higgs fields on the phase structure of the <math>SU(2)</math>-Higgs model</i>
4:00 pm	Tagreed Mohammed <i>Equivariant projection formulae for Specht modules</i>	Vahid Anvari <i>A mathematical model to investigate the treatment policy for fluoroquinolone drug resistance of gonorrhea</i>	Michael Szafron <i>Knotting probabilities resulting from a local strand passage in a knot-type K SAP</i>
4:30 pm	Marina Tvalavadze <i>Universal non-associative enveloping algebras of low-dimensional Malcev algebras</i>	Ashrafi Niger <i>Mathematical analysis of the role of repeated exposure on malaria transmission dynamics</i>	Chel Hee Lee <i>Efficient Monte Carlo random variates generation through discretization</i>

FRIDAY MAY 1 – MORNING AND AFTERNOON SESSIONS – PRAIRIE MATHEMATICS MEETING

7:45 am	BREAKFAST: in the Foyer of ESB (Edwards School of Business)
9:30 am	STUDENT WORKSHOP PRESENTATION IN PURE MATHEMATICS Murray Bremner, University of Saskatchewan <i>Lattice basis reduction and its applications</i> ESB Room 18 (Goodspeed Theatre, Edwards School of Business)
10:30 am	COFFEE BREAK: in the Foyer of ESB (Edwards School of Business)
11:00 am	STUDENT WORKSHOP PRESENTATION IN STATISTICS Lisa Lix, University of Saskatchewan <i>What is biostatistics? An overview of the biostatistics graduate program at the University of Saskatchewan</i> ESB Room 18 (Goodspeed Theatre, Edwards School of Business)
12:00 noon	LUNCH BREAK: in the Exeter Room of Marquis Hall
1:30 pm	STUDENT WORKSHOP PRESENTATION IN INDUSTRIAL AND COMPUTATIONAL MATHEMATICS Ray Spiteri, University of Saskatchewan <i>My takes on MITACS</i> ESB Room 18 (Goodspeed Theatre, Edwards School of Business)
2:30 pm	COFFEE BREAK: in the Foyer of ESB (Edwards School of Business)
3:00 pm	STUDENT WORKSHOP PRESENTATION IN APPLIED MATHEMATICS AND MATHEMATICAL PHYSICS <i>Panel discussion on graduate study and career opportunities in applied mathematics</i> ESB Room 18 (Goodspeed Theatre, Edwards School of Business)