

for Mathematical Innovation and Discovery

#### Understanding the New Statistics: Expanding Core Statistical Theory (08w5071, September 14-19, 2008)

## MONDAY, September 15, 2008

7:00-8:45 8:45-9:00	Breakfast (Sally Borden Building) (Max Bell 159) Introduction and welcome to BIRS by BIRS station manager
9:00-9:45 9:45-10:15	( <i>Max Bell 159</i> ) Iain Johnstone: Null Distributions for Largest Eigenvalues in Multivariate Analysis Noureddine El Karoui: On Kernel Random Matrices
10:15-10:45	Coffee Break (2nd floor lounge, Corbett Hall)
10:45-11:30 11:30-11:45	(Max Bell 159) Steve Marron: High Dimension Low Sample Size Mathematical Statistics Meeting: bus transportation for the Wednesday trip
11:45-13:00 13:00-14:00	Lunch (Sally Borden Building) Guided tour of the Banff Centre (meet in the lobby of Corbett Hall)
$14:00{-}14:45$ $14:45{-}15:15$	( <i>Max Bell 159</i> ) Sara van de Geer: High-Dimensional Additive Modeling Marten Wegkamp: Generalized Support Vector Machines in Sparse Settings
15:15-15:45	Coffee Break (2nd floor lounge, Corbett Hall)
15:45-16:30 16:30-17:00 17:00-17:30	(Max Bell 159) Benedikt Pötscher: Confidence Sets Based on Sparse Estimators Are Necessarily Large Florentina Bunea: Honest Inference In Sparse High-Dimensional Models Martin Bilodeau: Discovering Dependencies in Multivariate Data and in Stationary Sequences
17:30 - 19:30	Dinner (Sally Borden Building)



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## TUESDAY, September 16, 2008

7:00-8:45	Breakfast (Sally Borden Building)
8:45-9:15 9:15-9:45 9:45-10:15	(Max Bell 159) Peter Kim: Geometric and Topological methods for High-Dimensional Data Analysis Mikhail Belkin: Spectral and Geometric Methods in Learning Marloes Maathuis: Variable Importance Based on Intervention Calculus
10:15 - 10:45	Coffee Break (2nd floor lounge, Corbett Hall)
10:45-11:15 11:15-11:45	(Max Bell 159) Saharon Rosset: $\ell_1$ Regularization in Infinite Dimensional Feature Spaces Roger Koenker: Computational Pathways for Regularized Quantile Regression
11:45 - 14:00	Lunch (Sally Borden Building)
14:00-14:30 14:30-15:00	(Max Bell 159) Peter McCullagh: Random Effects and Estimating Equation Debashis Paul: Statistical Modeling Through Nonlinear Mixed Effects Dynamics
15:00 - 15:30	Coffee Break (2nd floor lounge, Corbett Hall)
15:30-16:00 16:00-16:30 16:30-17:00 17:00-17:30 17:30-18:00	(Max Bell 159) Kjell Doksum: On Nonparametric Variable Selection Hannes Leeb: Evaluating and Selecting Models for Prediction Out-Of-Sample Art Owen: Cross-Validation for the Truncated SVD and the Non-Negative Matrix Factorization Marc Hallin: The General Dynamic Factor Model Christopher Genovese: Finding Filaments
18:00 - 19:30	Dinner (Sally Borden Building)
20:00	(Max Bell 159) Open discussion forum



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## WEDNESDAY, September 17, 2008

7:00–9:00	Breakfast (Sally Borden Building)
9:00-9:30 9:30-10:00	(Max Bell 159) Jim Ramsay: Parameter Cascading for High Dimensional Models Larry Brown: Non-Parametric Empirical Bayes and Compound Bayes Estimation of Independent Normal Means
10:00-10:30	Coffee Break (2nd floor lounge, Corbett Hall)
	(Max Bell 159) Bertrand Clarke: Coordinating Theory Laurie Davies: A View From a Limited Perspective
11:30	Group Photo – taken at the stairs in front of Corbett Hall
11:35-13:00	Lunch (Sally Borden Building)
13:00-18:00	Free afternoon (The bus to Lake Louise departs from the Professional Development Centre – reception)
18:00-19:30	Dinner (Sally Borden Building)



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# THURSDAY, September 18, 2008

7:00–9:00	Breakfast (Sally Borden Building)
9:00–9:30 9:30–10:00 10:00–10:30	(Max Bell 159) Michael Jordan: On Surrogate Loss Functions and f-Divergences Ivan Mizera: Quasi-Concave Density Estimation: Duality in Action Kenji Fukumizu: Independence and Conditional Independence with Reproducing Kernels
10:30-11:00	Coffee Break (2nd floor lounge, Corbett Hall)
$11:00{-}11:30$ $11:30{-}12:00$ $12:00{-}12:30$	(Max Bell 159) Giles Hooker: Inference from Black Boxes Vladimir Vovk: Predictive Regression: In Defence of the Old Statistics Aurore Delaigle: Design-Adaptive Local Polynomial Estimator for the Errors-in-Variables Problem
12:30-13:30	Lunch (Sally Borden Building)
	Free afternoon (TBA)
17:30-19:30	Dinner (Sally Borden Building)



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## FRIDAY, September 19, 2008

7:00-8:45	Breakfast (Sally Borden Building)
	(Max Bell 159)
8:45 - 9:15	Wolfgang Polonik: Asymptotic Normality of Plug-In Level Set Estimates
9:15 - 9:45	David Mason: Recent Results on Uniform in Bandwidth Consistency of Kernel-Type
	Function Estimators
9:45 - 10:15	Rudolf Beran: Penalized Fits of Multivariate Responses to Covariates
10:15-10:45	Coffee Break (2nd floor lounge, Corbett Hall)
	(Max Bell 159)
10:45 - 11:30	Andrey Feuerverger: The Joy of Text
11:30-13:30	Lunch (Sally Borden Building)
	You are kindly asked to check out in the reception ( <i>Professional Development Centre</i> ) by 12:00