Alberta Conference for Young Researchers in Mathematics
April 9-10, 2005
Schedule

Saturday, April 9

12:00 to 13:00 Welcome reception and LUNCH in the U of C Dept. of Math. & Stats lounge (4th floor of the Math Sciences Building room MS461).
13:00 to 14:30 *Session 1*
14:30 to 15:00 Break
15:00 to 16:30 *Session 2*
16:30 to 17:00 Break
17:00 to 18:00 *Session 3*
19:00 to 21:00 Dinner Banquet at the U of C Faculty Club.

Sunday, April 10

09:00 to 10:20 *Session 4*
10:20 to 10:35 Break
10:35 to 11:15 *Session 5*
11:15 to 12:00 Plenary meeting and farewell reception. Light refreshments will be provided.
12:00 U of A students depart.

Room numbers:
Section 1: MS431 (Math. & Stats building, fourth floor)
Section 2: MS427 (Math. & Stats building, fourth floor)
Section 3: MS371 (Math. & Stats building, third floor)
Dept. Lounge: MS461 (Math. & Stats building, fourth floor)

Section 1 in MS431

Saturday
Session 1

A Game of Cops and Robber, 40min.
Adrian Tang, University of Calgary
Art and Geometry, 40min.
Bouchra Sabbagh, University of Calgary

Session 2

Introduction to Seifert manifolds, 40min.
Satoshi Tomoda, University of Calgary
On Quasiuniform convergence, 25min.
Damir Kinzebulatov, University of Calgary
Banach-Mazur Distance and Random Convex Bodies, 25min.
Peter Pivovarov, University of Alberta

Session 3

Using History to Teach Mathematics, 15min.
Tina Rapke, University of Calgary
Some history of analysis and France at the turn of the 19th century,
40min.
Garth Boucher, University of Calgary

Sunday
Session 4

Antipodal sets in Hyperbolic spaces, 40min.
Marton Naszodi, University of Calgary
Uniformly distributed sequences: some examples and conjectures,
25min.
Omar Rivasplata, University of Alberta

Session 5

Calculus on Subcartesian Spaces, 40min.
Jordan Watts, University of Calgary

Section 2 in MS427

Saturday
Session 1

Algebraic Cryptography, 40min.
Dr. Stephane Lemieux, University of Calgary

Redundant Number Systems in Cryptography, 25min.
Kjell Wooding, University of Calgary
Relation Algebras, 25min.
Csaba Henk, University of Calgary

Session 2

An Introduction to Ball-Polytopes and 1-Convexity., 40min.
Peter Papez, University of Calgary
-1 = 1 + 2 + 4 + 8 + 16 + 32 + ..., 25min.
Tracy Walker, University of Calgary
Non commutative function spaces, 25min.
Shawn Desaulniers, University of Alberta

Session 3

A geometric interpretation of the trace of a matrix, 15min.
Lynn Dover, University of Alberta
Derivation of Prey–taxis and Its Application, 25min.
Jungmin Lee, University of Alberta

Sunday
Session 4

On the Relative Distances of Seven Points in a Plane Convex Body, 40min.
Dr. Zsolt Langi, University of Calgary
Optimal Two-Period Two-Treatment Repeated Measurement Designs With Or Without Baseline Measurements, 25min.
Yuanyuan Liang, University of Alberta

Session 5

Is there a m-th root for y in G?, 40min.
Qingquan Wu, University of Illinois

Section 3 in MS371

Saturday
Session 1

Strange Attractor of the Henon Map, 40min.
Matthew Emmett, University of Calgary
An Axiomatic Approach to Primary Degree, 40min.
Haibo Ruan, University of Alberta

Session 2

Lyapunov Functions and Global Dynamics of A Mathematical Model of Tuberculosis (TB), 40min.
Hongbin Guo, University of Alberta
Minimum Hellinger Distance Estimators for Mixing Proportions: Finite Support Case, 25min.
Jingjing Wu, University of Alberta
A group sequential test with longitudinal data, 25min.
Eunha Yang, University of Alberta

Session 3

Estimating sensitivity and Specificity for Binocular Data: Application in Ophthalmology, 15min.
Meijie Guo, University of Calgary
Asymptotic Behavior of Solutions to Dissipative Nonlinear Evolutions with Ellipticity, 40min.
Zhian Wang, University of Alberta

Sunday
Session 4

Pseudospectrum, 25min.
Bryan Quaife, University of Calgary
An analysis of chaotic behavor in a networked control systems, 25min.
Guofeng Zhang, University of Alberta
On Milloux's Theorem, 25min.
Qian Wang, University of Alberta

Session 5

Pricing on a two interest rates jump diffusion financial market, 25min.
Selly Kane, University of Alberta
Financing Conditions in Small Canadian Businesses – An Introduction to Boosting Method, 25min.
Shali Zhang, University of Calgary