Statistical Mechanics of Polymer Models
May 10 – 15, 2003
Workshop Schedule

Saturday, May 10

5:30–7:30 PM DINNER, DONALD CAMERON HALL, MAIN DINING ROOM

***PLEASE CHECK-IN WITH THE HOST/HOSTESS AND SIGN THE BIRS SHEET FOR EACH LUNCH AND EACH DINNER.*

Sunday, May 11

7:00—9:00 AM BREAKFAST, 2ND FLOOR LOUNGE, CORBETT HALL

Morning Session
Chair: C. Soteros

8:30-9:30 OPENING TUTORIAL: Polymer Models - Tony Guttmann

9:30-10:30 Symmetry and Universality in (some) Lattice Polymer Models - A. Owczarek

10:30-11:00 coffee (2nd floor Lounge, Corbett Hall)

11:00-12:00 Bijections for lattice polymers enumeration - X. Viennot

12:00-1:30 Lunch (buffet style in the main dining room of the Banff centre served 11:30-1:30)

Afternoon Session
Chair: S. Whittington

2:00-3:00 TUTORIAL: Random Co-polymers - Frank Den Hollander

3:00-4:00 An interface polymer model and the Simple Asymmetric Exclusion Process - equilibrium in non-equilibrium? - R. Brak

4:00-4:30 coffee (2nd floor Lounge, Corbett Hall)

4:30-5:30 Why can't we solve any of these things? - a survey of D-finitedness - Andrew Rechnitzer

5:30–7:30 pm Dinner, Donald Cameron Hall, Main Dining Room

All lectures are held in the main lecture hall, Max Bell 159.

Monday, May 12

7:00—9:00 AM BREAKFAST, 2ND FLOOR LOUNGE, CORBETT HALL

Morning Session
Chair: De Witt Sumners

8:30-9:30 TUTORIAL: THE NATURE OF KNOTTING - K. MILLETT

9:30-10:30 SOLVING TANGLE EQUATIONS WITH KNOTPLOT. - I. DARCY

10:30-11:00 COFFEE (2ND FLOOR LOUNGE, CORBETT HALL)

11:00-12:00 TUTORIAL: RANDOM KNOTTING - Y. DIAO

12:00-1:00 LUNCH, MAIN DINING ROOM, DONALD CAMERON HALL

1:00-2:00 GUIDED TOUR OF THE BANFF CENTRE FACILITIES. PLEASE MEET IN THE 2ND FLOOR LOUNGE OF CORBETT HALL.

AFTERNOON SESSION

CHAIR: NEAL MADRAS
2:00-3:00 TUTORIAL: SCALING LIMITS IN HIGH DIMENSIONS - GORD SLADE

3:00-4:00 BRANCHED POLYMERS AND DIMENSIONAL REDUCTION - DAVID BRYDGES

4:00-4:30 COFFEE (2ND FLOOR LOUNGE, CORBETT HALL)

CHAIR: S. WHITTINGTON
4:30-4:50 LOCAL VERSUS GLOBAL SCALING IN KNOT SPACE - K. MILLETT

4:50-5:10 NEW DEVELOPMENTS IN STOCHASTIC GROWTH ALGORITHMS - T. PRELLBERG

5:10-5:30 UNKNOTTING BY TYPE II TOPOISOMERASES - J. MANN

5:30–7:30 PM DINNER, DONALD CAMERON HALL, MAIN DINING ROOM

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Tuesday, May 13

7:00—9:00 AM BREAKFAST, 2ND FLOOR LOUNGE, CORBETT HALL

Morning Session
Chair: De Witt Sumners

8:30-9:30 TUTORIAL: Knot energies - Buks Janse van Rensburg

9:30-10:30 Recent progress on the ropelength of knots and links - R. Kusner

10:30-11:00 Coffee (2nd floor Lounge, Corbett Hall)

11:00-12:00 Round table discussion

12:00-12:10 Group Photo, front steps of Corbett Hall

12:00-1:30 Lunch, Main Dining Room, Donald Cameron Hall

Free Afternoon

5:30–7:30 pm Dinner, Donald Cameron Hall, Main Dining Room

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WEDNESDAY, MAY 14

7:00—9:00 am Breakfast, 2nd floor lounge, Corbett Hall

MORNING SESSION
CHAIR: TONY GUTTMANN

8:30-9:30 SPIRAL CONFORMAL MULTIFRACTALS - B. DUPLANTIER
9:30-10:30 THE ISING MODEL ON PLANAR MAPS: A COMBINATORIAL SOLUTION. - MIREILLE BOUSQUET-MELOU

10:30-11:00 COFFEE (2ND FLOOR LOUNGE, CORBETT HALL)

11:00-12:00 THE THETA POINT AS A KNOT DELOCALIZATION TRANSITION. - A. STELLA

12:00-1:30 LUNCH, MAIN DINING ROOM, DONALD CAMERON HALL

AFTERNOON SESSION

CHAIR: BUKS JANSE VAN RENSBURG
2:00-3:00 KNOTTING PROBABILITY AND THE TOPOLOGICAL SWELLING OF SELF-AVOIDING POLYGONS WITH FIXED KNOTS - T. DEGUCHI

3:00-4:00 COMPUTER SIMULATIONS OF PROTEINS - U. HANSMANN

4:00-4:30 COFFEE (2ND FLOOR LOUNGE, CORBETT HALL)

CHAIR: C. SOTEROS
4:30-4:50 HIGH-DIMENSIONAL GRAPHICAL NETWORKS OF SELF-AVOIDING WALKS - ANTAL JARAI

4:50-5:10 LOCALIZATION OF RANDOM COPOLYMERS AT AN INTERFACE: SOME NEW NUMERICAL RESULTS - E. JAMES

5:10-5:30 LIMIT DISTRIBUTIONS AND SCALING BEHAVIOUR FOR MODELS OF PLANAR POLYGONS - CHRISTOPH RICHARD

5:30-5:50 COLORABILITY, N-STRING TANGLES AND PROTEIN BINDING -- JUNALYN NAVARRA-MADSEN

5:50—7:30 PM DINNER, DONALD CAMERON HALL, MAIN DINING ROOM

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THURSDAY, MAY 15

7:00—9:00 am Breakfast, 2nd floor lounge, Corbett Hall

CHAIR: S. WHITTINGTON
9:00-10:00 IDEAL GEOMETRIC REPRESENTATIONS OF KNOTS AS PREDICTORS OF PHYSICAL AND STATISTICAL PROPERTIES OF KNOTTED POLYMERS. - A. STASIAK

10:00-10:30 COFFEE (2ND FLOOR LOUNGE, CORBETT HALL)

10:30-11:30 CLOSING TALK: NEAL MADRAS

11:30-1:30 LUNCH, MAIN DINING ROOM, DONALD CAMERON HALL

EXTRA NOTES:

1. IN ADDITION TO THE TALKS THERE WILL BE POSTERS ON DISPLAY FOR MUCH OF THE MEETING, INCLUDING:

THE PROBABILITY OF KNOTTING AFTER A LOCAL STRAND PASSAGE IN AN UNKNOTTED SAP - M. SZAFRON

GEOMETRICAL COMPLEXITY OF CONFORMATIONS OF RING POLYMERS UNDER TOPOLOGICAL CONSTRAINTS - MIYUKI K. SHIMAMURA

(A MAGNETIC POSTER BOARD IS LOCATED ALONG THE WALL OUTSIDE OF MAX BELL ROOM 158.)

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