Recent Advances in Algebraic and Enumerative Combinatorics
May 3 – 8
Workshop Schedule

Saturday, May 3

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 4

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

9:30 Persi Diaconis: Set Partitions and Character Theory for Upper Triangular Matrices

10:30-11:00 Jennifer Morse: Tableaux atoms and k-Schur functions

11:15-11:45 Francois Bergeron: Diagonal Alternants

11:45-1:30 Lunch, Main Dining Room, Donald Cameron Hall

2:00-3:00 Michael Shapiro/Alek Vainshtein: Cluster algebras and Poisson geometry

3:30-4:00 Christian Krattenthaler: Symmetric functions prove asymptotic results for random walks in alcoves of affine Weyl groups

4:15-4:45 Victor Reiner: Conjectures on the cohomology of the Grassmannian

5:30–7:30 pm Dinner, Donald Cameron Hall, Private Function Rooms #3-5

Please note that all lectures are held in the main lecture hall, Max Bell 159.

Monday, May 5

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

Morning Session
Chair: Ian Goulden

9:00   Christine Bessenrodt: Products of characters of the symmetric groups and related groups

9:40   Anders Buch: Quantum cohomology of partial flag manifolds

10:10   Coffee Break, 2ND Floor Lounge, Corbett Hall

10:40   Michelle Wachs: Posets of graphs, partitions and trees

11:20   Craig Tracy: A Limit Theorem for Shifted Schur Measures

11:50-1:30 Lunch, Main Dining Room, Donald Cameron Hall

Afternoon Session
Chair: Curtis Greene

2:30   Ravi Vakil: A geometric Littlewood-Richardson rule

3:10   Helene Barcelo: A discrete homotopy theory and its application to hyperplane

3:45   Coffee Break, 2nd Floor Lounge, Corbett Hall

4:10   Roland Speicher: Free probability and non-crossing partitions

4:50   Alexandru Nica: Annular non-crossing permutations and partitions, and random matrices

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

Please note that all lectures are held in the main lecture hall, Max Bell 159.

Tuesday, May 6

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

MORNING SESSION
CHAIR: DAVID JACKSON

9:00   Arun Ram: The radical of the Brauer algebra

9:40   Alen Knutson: Schubert polynomials and quiver polynomials

10:10   COFFEE BREAK, 2ND FLOOR LOUNGE, CORBETT HALL

10:40   MICHAEL KLEBER: DOUBLE-HEADED LR COEFFICIENTS AND TYPE E_N

11:20   MIREILLE BOUSQUET-MELOU: MINIMAL TRANSITIVE FACTORIZATIONS OF PERMUTATIONS

11:50-1:30 Lunch, Main Dining Room, Donald Cameron Hall

Free Afternoon

Evening Session
Chair: Richard Stanley

8:00 PM SERGEY FOMIN/WILLIAM FULTON: EIGENVALUES, SINGULAR VALUES, AND SCHUBERT CALCULUS

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Wednesday, May 7

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

MORNING SESSION
CHAIR: RICHARD STANLEY

9:00   Nantel Bergeron: Combinatorial Hopf Algebra

9:40   Patricia Hersh: A Hodge Decomposition for the Complex of Injective Words

10:10   COFFEE BREAK, 2ND FLOOR LOUNGE, CORBETT HALL

10:40   ERIC RAINS: VANISHING INTEGRALS OF MACDONALD POLYNOMIALS

11:20   Ezra Miller: Combinatorics of quiver polynomials

11:50-1:30 LUNCH, PRIVATE FUNCTION ROOMS #3-5, DONALD CAMERON HALL

1:30   GUIDED TOUR OF THE BANFF CENTRE FACILITIES – MEET IN THE 2ND FLOOR LOUNGE, CORBETT HALL

AFTERNOON SESSION
CHAIR: SARA BILLEY

3:00   MARK SHIMOZONO: BUCH–FULTON FACTOR SEQUENCE CONJECTURES

3:35   COFFEE BREAK, 2ND FLOOR LOUNGE, CORBETT HALL

4:00   John Stembridge: Graded multiplicities in the Macdonald kernel and a (q,t)-coinvariant algebra

4:40   Adriano Garsia: Cohen Macauliness of the Ring of Quasi-Symmetric Functions

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

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Thursday, May 8

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

NO TALKS SCHEDULED.

10:30   COFFEE BREAK, 2ND FLOOR LOUNGE, CORBETT HALL

11:30-1:30 LUNCH, PRIVATE FUNCTION ROOMS #3-5, DONALD CAMERON HALL

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