Program of the 5th MSJ-SI Schubert Calculus Summer School

July 17th to 20th

9:30-10:30   Takeshi Ikeda
　　　　　　　Equivariant Schubert polynomials

10:50-11:50   Allen Knutson
　　　　　　　Schubert calculus and puzzles

14:00-15:00   Sara Billey
　　　　　　　Consequences of the Lakshmibai-Sandhya Theorem;
　　　　　　　the ubiquity of permutation patterns in Schubert calculus
　　　　　　　and related geometry

15:30-16:30   Thomas Lam
　　　　　　　Affine Schubert calculus

16:45-17:45   Frank Sottile
　　　　　　　Experimentation in the Schubert Calculus

Conference

July 23rd (Mon.)

9:30–10:30   Anders Buch
　　　　　　　The Puzzle conjecture for 2-step flag varieties

10:50–11:50   Alexander Yong
　　　　　　　Schubert calculus via root datum and sliding laws

14:00–15:00   Peter Fiebig
　　　　　　　Parity sheaves, Moment graphs and KL-polynomials

15:30–16:30   Mark Shimozono
　　　　　　　Chevalley rule for equivariant K-theory of Kac-Moody
　　　　　　　flag manifolds

16:45–17:45   Dave Anderson
　　　　　　　Equivariant quantum Schubert polynomials, transversality
　　　　　　　and positivity

July 24th (Tue.)

9:30–10:30   Leonardo Mihalcea
　　　　　　　Curve neighborhoods of varieties in flag manifolds

10:50–11:50   K. N. Raghavan
　　　　　　　RSK Correspondence and KL Cells

14:00–15:00   Masaki Nakagawa
　　　　　　　K-homology of the space of loops on a symplectic group

15:30–16:30	Bumsig Kim
	J-functions of GIT quotients
16:45–17:45	Valentina Kiritchenko
	Convex geometric Demazure operators

July 25th (Wed.)

9:30–10:30	Alain Lascoux
	Eulerian structure of the Symmetric Group and Tableaux
10:50–11:50	Syu Kato
	PBW bases and KLR algebras

July 26th (Thu.)

9:30–10:30	Nicolas Perrin
	Spherical multiple flags
10:50–11:50	Masaki Kashiwara
	Infinite-dimensional Schubert cells versus finite-dimensional Schubert cells
14:00–15:00	Satoshi Naito
	On an intrinsic description of level-zero Lakshmibai-Seshadri paths and the quantum Schubert calculus
15:00–16:00	Poster session
16:00–16:45	Sami Assaf
	Multiplying Schubert polynomials by Schur functions
17:00–17:45	Kelli Talaska
	Networks and the Deodhar decomposition of real Grassmannians

July 27th (Fri.)

9:30–10:30	Julianna Tymoczko
	Billey's formula and geometric Schubert calculus
10:50–11:50	Maxim Kazarian
	Polylinear expansions in Schubert calculus
14:00–15:00	Toshiaki Shoji
	Character sheaves on a symmetric space and Kostka polynomials
15:30–16:30	Piotr Pragacz
	Positivity in Schubert calculus

Poster Session

Hiraku Abe, Tomoo Matsumura (TMU, KAIST)   Schubert calculus for weighted Grassmannian orbifolds

Chris Berg, Franco Saliola, Luis Serrano (LaCIM, Universite du Quebec a Montreal)   Pieri operators on the affine nilCoxeter algebra

Anna Bertiger (Cornell Univ.)   Unions of Matrix Schubert Varieties

Bryan Bischof (Kansas State Univ.)   Deformations of differential operators on the big cell

Li Cai (Kyushu Univ.)   Calculation of the cohomology of generalized moment-angle complexes

Alexander Caviedes Castro (Univ. of Toronto)   Upper bounds for Gromov width of coadjoint obits of type A

Avinash Dalal (Drexel Univ.)   The ABC's of Affine Grassmannians and Hall-Littlewood Polynomials

Chayapa Darayon (Univ. of Illinois) Gorenstein Richardson Varieties in the Grassmannian

Elizabeth Drellich (Univ. of Massachusetts) Natural Bases of the Cohomology of Regular Nilpotent Hessenberg Varieties

Yukiko Fukukawa (Osaka City Univ.)   GKM graph cohomology of flag varieties

Nickolas Hein (Texas A & M Univ.)   A mod four congruence in the symmetric real Schubert calculus and the Hermitian Grassmannian

Thomas Hudson (Universitaet Duisburg-Essen) Thom-Porteous formulas in algebraic cobordism

Erik Insko (Univ. of Iowa)   Schubert calculus and the cohomology ring of the Peterson variety

Shizuo KAJI (Yamaguchi Univ.)   Ordinary vs double Schubert polynomials

Masahide Konishi (Nagoya Univ.)   Counting the number of primitive idempotents of cyclotomic KLR algebras of type $A_n^{(1)}$

Jennifer Koonz (Univ. of Massachusetts, Amherst)   Poincare Polynomials of Singular Schubert Varieties

Karine Kuyumzhiyan (National Research University Higher School of Economics) Simple G-modules with normal closures of maximal torus orbits

Martina Lanini (FAU Erlangen-Nuernberg) Periodic patterns on parabolic moment graphs

Norihiro Nakashima (Hokkaido Univ.)   Coxeter arrangements and Cauchy-Sylvester's compound determinants

Edward Richmond (Univ. of British Columbia)   Coxeter groups and palindromic Poincare polynomials

Kaisa Taipale (St. Olaf College/Mathematical Sciences Research Institute) Quantum Schubert calculus: combinatorial variations on a rimhook theme

Nicholas Teff (Univ. of Iowa) Hessenberg varieties and chromatic symmetric functions

Haggai Tene (POSTECH) Equivariant Poincare Duality and Tate Cohomology for compact Lie group actions