

Centre de recherches mathématiques
Université de Montréal

Atelier : Interactions entre la combinatoire algébrique et la géométrie
algébrique
Du 28 mai au 1 juin 2007

*Workshop: Interactions between Algebraic Combinatorics and Algebraic
Geometry
May 28 - June 1, 2007*

HORAIRE / PROGRAM

Conférences : salle 1360

Pauses-café : salle 1221

Lectures: Room 1360

Coffee Breaks: Room 1221

Le lundi 28 mai 2007 / *Monday, May 28, 2007*

09:00 - 09:30 Inscription et café-croissant (1221) / *Registration and Coffee & Croissants (1221)*

09:30 - 10:30 **Mark Haiman** (University of California, Berkeley)
“General LLT polynomials”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / *Room* 1221)

11:00 - 12:00 **Alexander Yong** (University of Minnesota)
“Schubert combinatorics and geometry”

12:00 - 14:30 Déjeuner / *Lunch*

14:30 - 15:00 **Hugh Thomas** (University of New Brunswick)
“Tableau combinatorics of dual equivalence and its generalizations”

15:00 - 15:30 Pause-café / *Coffee break*
(Salle / *Room* 1221)

15:30 - 16:30 **Paul Zinn-Justin** (Université Paris-Sud)
“Brauer loop scheme and orbital varieties”

Le mardi 29 mai 2007 / *Tuesday, May 29, 2007*

09:00 - 09:30 Café croissants (1221) / *Coffee & Croissants (1221)*

09:30 - 10:30 **Ezra N. Miller** (University of Minnesota)
“A Kleiman-Bertini theorem for sheaf tensor products”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / *Room* 1221)

11:00 - 12:00 **Diane Maclagan** (Rutgers University)
“Equations for Chow and Hilbert quotients”

12:00 - 14:30 Déjeuner / *Lunch*

14:30 - 15:00 **Emmanuel Briand** (Universidad de Sevilla)
“Diagonal invariants of the symmetric group and products of linear forms”

15:00 - 15:30 Pause-café / *Coffee break*
(Salle / *Room* 1221)

15:30 - 16:30 **Gregory G. Smith** (Queen’s University)
“Multigraded Hilbert schemes”

Le mercredi 30 mai 2007 / *Wednesday, May 30, 2007*

09:00 - 09:30 Café croissants (1221) / *Coffee & Croissants (1221)*

09:30 - 10:30 **Arkady Berenstein** (University of Oregon)
“Quasiharmonic polynomials for Coxeter groups and canonical elementary invariants ”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / *Room* 1221)

11:00 - 12:00 **Leonardo Constantin Mihalcea** (Duke University)
“Chern-Schwartz-MacPherson classes for Schubert cells in the Grassmannian”

12:00 - 14:30 Déjeuner / *Lunch*

14:30 - 15:30 **Richard Rimanyi** (University of North Carolina at Chapel Hill)
“Equivariant classes of matroid realization spaces”

15:30 - 16:30 Café / *Coffee*
(Salle / *Room* 1221)

Le jeudi 31 mai 2007 / *Thursday, May 31, 2007*

09:00 - 09:30 Café croissants (1221) / *Coffee & Croissants (1221)*

09:30 - 10:30 **Lauren K. Williams** (Harvard University)
“Matching polytopes, toric geometry, and the non-negative part of the Grassmannian”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / *Room* 1221)

11:00 - 12:00 **Anders Skovsted Buch** (Rutgers University)
“*Quantum K-theory of Grassmannians*”

12:00 - 14:30 Déjeuner / *Lunch*

14:30 - 15:00 **Valerie Hower** (University of Georgia)
“ $\mathbb{Z}/2\mathbb{Z}$ Hodge spaces of toric varieties”

15:00 - 15:30 Pause-café / *Coffee break*
(Salle / *Room* 1221)

15:30 - 16:00 **Joe Rusinko** (University of Georgia)
“Varieties related to toric degenerations of spherical varieties”

Le vendredi 1 juin 2007 / *Friday, June 1, 2007*

09:00 - 09:30 Café croissants (1221) / *Coffee & Croissants (1221)*

09:30 - 10:30 **Laura Matusevich** (Texas A&M University)
“Integral closure and binomial ideals”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / *Room* 1221)

11:00 - 11:30 **Mahir Can** (University of Western Ontario)
“On the H polynomials of reductive monoids”

12:00 - 14:30 Déjeuner / *Lunch*

14:30 - 15:00 **Asia Matthews** (San Francisco State University)
“A geometric approach to Carlitz-Dedekind sums”

15:00 - 15:30 Pause-café / *Coffee break*
(Salle / *Room* 1221)

15:30 - 16:00 **Ahad Rahimi** (Universität Duisburg-Essen)
“Tameness of local cohomology of monomial ideals with respect to monomial prime ideals”