

HORAIRE / *PROGRAM*

ÉCOLE ET ATELIER

COMBINATOIRE ALGÈBRIQUE ET GÉOMÉTRIQUE DES GROUPES
DE RÉFLEXIONS

29 mai au 9 juin 2017

SCHOOL AND WORKSHOP

*ALGEBRAIC AND GEOMETRIC COMBINATORICS OF REFLECTION
GROUPS*

May 29–June 9, 2017

ÉCOLE : salle PK-R250 (UQAM, Pavillon Président-Kennedy)

ATELIER : salle Z-220 (Université de Montréal, Pavillon Claire-McNicoll)

SCHOOL: *Room PK-R250 (UQAM, Pavillon Président-Kennedy)*

WORKSHOP: *Room Z-220 (Université de Montréal, Pavillon Claire-McNicoll)*

Le lundi 29 mai 2017 / Monday, May 29, 2017

09:30–10:00 Inscription et café croissants
Registration and Coffee & Croissants

École : Combinatoire algébrique et géométrique des groupes de réflexions (UQAM, Pav. Président-Kennedy, PK-R250)

School: Algebraic and Geometric Combinatorics of Reflection Groups (UQAM, Pav. Président-Kennedy, PK-R250)

10:00–12:00 **Christophe Hohlweg** (UQAM)
“Introduction to Coxeter Groups & Reflection Groups - Part I”

12:00–14:00 Pause-déjeuner / *Lunch break*

14:00–16:00 **Matthew J. Dyer** (University of Notre Dame)
“Introduction to Coxeter Groups & Reflection Groups - Part II”

16:00–18:00 **Nicolas M. Thiéry** (Université Paris-Sud)
“Exercise and computational sessions”

16:00– Café / *Coffee*

Le mardi 30 mai 2017 / Tuesday, May 30, 2017

09:30–10:00 Café croissants / *Coffee & Croissants*

10:00–12:00 Piotr Przytycki (McGill University)
“The isomorphism problem for Coxeter groups - Part I”

12:00–14:00 Pause-déjeuner / *Lunch break*

14:00–16:00 Cédric Bonnafé (Université Montpellier 2)
“Representations of rational Cherednik algebras at $t = 0$ - Part I”

16:00–18:00 Nicolas M. Thiéry (Université Paris-Sud)
“Exercise and computational sessions”

16:00– Café / *Coffee*

Le mercredi 31 mai 2017 / Wednesday, May 31, 2017

09:30–10:00 Café croissants / *Coffee & Croissants*

10:00–12:00 Piotr Przytycki (McGill University)
“The isomorphism problem for Coxeter groups - Part II”

12:00–14:00 Pause-déjeuner / *Lunch break*

14:00–16:00 Cédric Bonnafé (Université Montpellier 2)
“Representations of rational Cherednik algebras at $t = 0$ - Part II”

16:00–18:00 Nicolas M. Thiéry (Université Paris-Sud)
“Exercise and computational sessions”

16:00– Café / *Coffee*

Le jeudi 1 juin 2017 / Thursday, June 1, 2017

09:30–10:00 Café croissants / *Coffee & Croissants*

10:00–12:00 Vic Reiner (University of Minnesota)
“Reflection group invariant theory and generating functionology - Part I”

12:00–14:00 Pause-déjeuner / *Lunch break*

14:00–16:00 Nathan Reading (North Carolina State University)
“Lattice congruences of the weak order - Part I”

16:00–18:00 Nicolas M. Thiéry (Université Paris-Sud)
“Exercise and computational sessions”

16:00– Café / *Coffee*

Le vendredi 2 juin 2017 / *Friday, June 2, 2017*

09:30–10:00 Café croissants / *Coffee & Croissants*

10:00–12:00 Vic Reiner (University of Minnesota)
“Reflection group invariant theory and generating functionology - Part II”

12:00–14:00 Pause-déjeuner / *Lunch break*

14:00–16:00 Nathan Reading (North Carolina State University)
“Lattice congruences of the weak order - Part II”

16:00–18:00 Nicolas M. Thiéry (Université Paris-Sud)
“Exercise and computational sessions”

16:00– Café / *Coffee*

Le lundi 5 juin 2017 / Monday, June 5, 2017

09:30–10:00 Inscription et café croissants
Registration and Coffee & Croissants

Atelier : Combinatoire algébrique et géométrique des groupes de réflexions (UdeM, Pav. Claire-McNicoll, Z-220)

Workshop: Algebraic and Geometric Combinatorics of Reflection Groups (UdeM, Pav. Claire-McNicoll, Z-220)

10:00–11:00 **Nathan Reading** (North Carolina State University)
“Lattice homomorphisms between weak orders and between Cambrian lattices”

11:00–12:00 **Salvatore Stella** (Università degli studi di Roma "La Sapienza")
“Polytopal Realizations of Finite Type \mathfrak{g} -Vector Fans”

12:00–15:30 Pause-déjeuner / *Lunch break*

15:30–16:00 Café / *Coffee*

16:00–17:00 **Cesar Ceballos** (Universität Wien)
“Combinatorics and Geometry of v -Tamari lattices”

17:00–18:00 **Karola Mészáros** (Cornell University)
“From Generalized Permutahedra to Grothendieck Polynomials via Flow Polytopes”

Le mardi 6 juin 2017 / Tuesday, June 6, 2017

09:30–10:00 Café croissants / *Coffee & Croissants*

10:00–11:00 Patricia Hersh (North Carolina State University)
“Shelling Bruhat Order and the Proof of a Conjecture of Thomas Lam”

11:00–12:00 Vivien Ripoll (Universität Wien)
“Some Geometric Properties of Limit Roots of Coxeter Groups”

12:00–15:30 Pause-déjeuner / *Lunch break*

15:30–16:00 Café / *Coffee*

16:00–17:00 Maria Chlouveraki (UVSQ / Université Paris-Saclay)
“Combinatorics of Multipartitions and Families of Characters”

17:00–18:00 Yuya Mizuno (Shizuoka University)
“A Connection Between the Module Category over a Path Algebra and the Coxeter Group”

Le mercredi 7 juin 2017 / Wednesday, June 7, 2017

09:30–10:00 Café croissants / *Coffee & Croissants*

10:00–11:00 Patrick Dehornoy (Université de Caen)
“Multifraction Reduction in Artin-Tits Groups”

11:00–12:00 Jon McCammond (UC Santa Barbara)
“The Intrinsic Geometry of the Dual Braid Complex”

12:00–15:30 Pause-déjeuner / *Lunch break*

15:30–16:00 Café / *Coffee*

16:00–17:00 Christian Stump (Otto-von-Guericke-Universität Magdeburg)
“From Shi Arrangements to Reflection Multi-Arrangements”

17:00–18:00 Kasia Jankiewicz (McGill University)
“Graph coloring problem and fibering right angled Coxeter groups”

Le jeudi 8 juin 2017 / *Thursday, June 8, 2017*

09:30–10:00 Café croissants / *Coffee & Croissants*

10:00–11:00 Piotr Przytycki (McGill University)
“A Step Towards Twist Conjecture”

11:00–12:00 Timothée Marquis (UCL)
“Conjugacy Classes in Coxeter Groups”

12:00–15:30 Pause-déjeuner / *Lunch break*

15:30–16:00 Café / *Coffee*

16:00–17:00 Anna Felikson (Durham University)
“Hyperbolic Coxeter Polytopes”

17:00–18:00 Jacek Swiatkowski (Wroclaw University)
“Coxeter groups with the n -dimensional Sierpinski compacta as boundaries”

Le vendredi 9 juin 2017 / *Friday, June 9, 2017*

09:30–10:00 Café croissants / *Coffee & Croissants*

10:00–11:00 Sara Billey (University of Washington)
“Reduced Words and a Formula of Macdonald”

11:00–12:00 Vic Reiner (University of Minnesota)
“Invariant Derivations and Differential Forms for Reflection Groups”

12:00–13:30 Pause-déjeuner / *Lunch break*

13:30–14:00 Café / *Coffee*

14:00–15:00 Martina Lanini (Università degli Studi di Roma “Tor Vergata”)
“Combinatorial Fock Space and Representations of Quantum Groups at Roots of Unity”

15:00–16:00 Jean Michel (Université Denis Diderot - Paris 7)
“Cyclotomic Root Systems”