

Centre de recherches mathématiques
Université de Montréal

Atelier «Catégorification et théorie géométrique de représentation»
Du 9 au 13 juin 2014

*Workshop “Categorification and geometric representation theory”
June 9-13, 2014*

HORAIRE / PROGRAM

Conférences : salle 6214 (Pavillon André-Aisenstadt)

Pauses-café : salon Maurice-L’Abbé (salle 6245, Pavillon André-Aisenstadt)

Lectures: Room 6214 (Pavillon André-Aisenstadt)

Coffee Breaks: Salon Maurice-L’Abbé (Room 6245, Pavillon André-Aisenstadt)

Le lundi 9 juin 2014 / *Monday, June 9, 2014*

09:00 - 10:00 Inscription (salle 5345) et café-croissants (salle 6245)

Registration (Room 5345) and Coffee & Croissants (Room 6245)

10:10 - 11:00 **Jiuzu Hong** (Yale University)

"Tensor invariants, saturation problems, and Dynkin automorphisms"

11:00 - 11:30 Pause-café / *Coffee break*

(Salle / Room 6245)

11:30 - 12:20 **Seok-Jin Kang** (Seoul National University)

"Higher representation theory and quantum affine Schur-Weyl duality"

12:20 - 14:10 Pause-déjeuner / *Lunch break*

14:10 - 15:00 **David Rose** (University of Southern California)

"The sl_n foam 2-category via skew Howe duality"

15:00 - 15:30 Pause-café / *Coffee break*

(Salle / Room 6245)

15:30 - 16:30 **Oded Yacobi** (The University of Sydney)

"Category O for quotients of shifted Yangians"

Le mardi 10 juin 2014 / *Tuesday, June 10, 2014*

08:30 - 09:00 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:00 - 09:50 **Eugene Gorsky** (Columbia University)
“Refined knot invariants and Hilbert schemes”

09:50 - 10:10 Pause-café / *Coffee break*
(Salle / Room 6245)

10:10 - 11:00 **Simon Riche** (Univ. Blaise Pascal - Clermont-Ferrand II)
“Modular generalized Springer correspondence”

11:00 - 11:30 Pause-café / *Coffee break*
(Salle / Room 6245)

11:30 - 12:20 **Mikhail Khovanov** (Columbia University)
“Advances in categorification”

12:20 - 14:10 Pause-déjeuner / *Lunch break*

14:10 - 15:00 **You Qi** (Univ. of California)
“Categorification of small $sl(2)$ ”

15:00 - 15:30 Pause-café / *Coffee break*
(Salle / Room 6245)

15:30 - 16:30 **Jonathan Brundan** (University of Oregon)
“Oriented Brauer categories”

16:30 Cocktail (6245) / *Reception (6245)*
(Salle / Room 6245)

Le mercredi 11 juin 2014 / *Wednesday, June 11, 2014*

08:30 - 09:00 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:00 - 09:50 **Ivan Losev** (Northeastern University)
“Localization theorems”

09:50 - 10:10 Pause-café / *Coffee break*
(Salle / Room 6245)

10:10 - 11:00 **Alexander Kleshchev** (University of Oregon)
“Imaginary Schur-Weyl duality for representations of KLR algebras of affine type”

11:00 - 11:30 Pause-café / *Coffee break*
(Salle / Room 6245)

11:30 - 12:20 **Aaron Lauda** (University of Southern California)
“Current algebras from categorified quantum groups”

Après-midi libre / *Free afternoon*

Le jeudi 12 juin 2014 / *Thursday, June 12, 2014*

08:30 - 09:00 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:00 - 09:50 **Volodymyr Mazorchuk** (Uppsala University)
“Simple transitive 2-representations of finitary 2-categories”

09:50 - 10:10 Pause-café / *Coffee break*
(Salle / Room 6245)

10:10 - 11:00 **Sabin Cautis** (The Univ. of British Columbia)
“Rigidity in higher representation theory”

11:00 - 11:30 Pause-café / *Coffee break*
(Salle / Room 6245)

11:30 - 12:20 **Arun Ram** (University of Melbourne)
“Lyndon words and the loop Grassmannian”

12:20 - 14:10 Pause-déjeuner / *Lunch break*

14:10 - 15:00 **Alexander Ellis** (University of Oregon)
“Odd categorification of quantum $sl(2)$ ”

15:00 - 15:30 Pause-café / *Coffee break*
(Salle / Room 6245)

15:30 - 16:30 **Catharina Stroppel** (Universität Bonn)
“TBA”

Le vendredi 13 juin 2014 / *Friday, June 13, 2014*

08:30 - 09:00 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:00 - 09:50 **Marko Stosic** (Instituto Superior Técnico)
“Colored HOMFLY homology of knots and links”

09:50 - 10:10 Pause-café / *Coffee break*
(Salle / Room 6245)

10:10 - 11:00 **Éric Vasserot** (UPMC)
“Vertex operators and elliptic Hall algebras”

11:00 - 11:30 Pause-café / *Coffee break*
(Salle / Room 6245)

11:30 - 12:20 **Michael Ehrig** (University of Bonn)
“Three dualities: Schur-Weyl, skew Howe, Koszul”

Fin de l'atelier / *Closure of the workshop*