

Centre de recherches mathématiques

ARTA III : Avancées en théorie des représentations des algèbres  
Du 16 au 20 juin 2014

*ARTA III. Advances in Representation Theory of Algebras  
June 16-20, 2014*

**HORAIRE / *PROGRAM***

Laboratoire de Combinatoire et d'informatique Mathématique (LaCIM)  
Université du Québec à Montréal  
Pavillon Président-Kennedy  
Salle / Room PK-R650

## Le lundi 16 juin 2014 / *Monday, June 16, 2014*

**08:30 - 09:00** Inscrition / *Registration*  
Salle / *Room* PK-R630

**09:00 - 09:50** **José Antonio de la Peña** (Centro de Investigación en Matemáticas (CIMAT))  
*“Mahler measure and the representation type of an algebra”*

**10:00 - 10:50** **Andrzej Mróz** (Nicolaus Copernicus University & CIMAT)  
*“Tubes in derived categories and cyclotomic factors of the Coxeter polynomial of an algebra”*

**10:50 - 11:20** Pause-café / *Coffee break*

**11:20 - 11:50** **Adam Skowyrski** (Nicolaus Copernicus University)  
*“On a homological problem for module categories with infinite radical cube zero”*

**12:00 - 12:30** **Marcelo Lanzilotta** (Universidad de la República)  
*“Homological theory of idempotent ideals via Igusa-Todorov function”*

**12:30 - 14:00** Pause-déjeuner / *Lunch break*

**14:00 - 14:30** **Shiping Liu** (Université de Sherbrooke)  
*“The derived category of an algebra with radical squared zero”*

**14:40 - 15:30** **Hugh Thomas** (University of New Brunswick)  
*“Classifying aisles in bounded derived categories of path algebras”*

**15:30 - 16:00** Pause-café / *Coffee break*

**16:00 - 16:30** **Mark Kleiner** (Syracuse University)  
*“Integrations and computation of functor Ext”*

**16:40 - 17:10** **Grzegorz Bobinski** (Nicolaus Copernicus University)  
*“The Krull-Gabriel dimension of discrete derived categories”*

**Le mardi 17 juin 2014 / *Tuesday, June 17, 2014***

---

- 09:00 - 09:50 Ralf Schiffler** (University of Connecticut)  
*“Surface algebras”*
- 10:00 - 10:50 Pierre-Guy Plamondon** (Université de Paris Sud XI)  
*“Generic cluster characters and multiplication formulas”*
- 10:50 - 11:20** Pause-café / *Coffee break*
- 11:20 - 11:50 Sonia Elisabet Trepode** (Universidad Nacional de Mar del Plata)  
*“Representation finite  $m$ -cluster tilted algebras of Euclidean type”*
- 12:00 - 12:30 Khrystyna Nechyporenko** (University of Connecticut)  
*“Induced and coinduced modules in cluster-tilted algebras”*
- 12:30 - 14:00** Pause-déjeuner / *Lunch break*
- 14:00 - 14:30 Yadira Valdivieso Diaz** (Universidad Nacional de Mar del Plata)  
*“Jacobian algebras with periodic module category and exponential growth”*
- 14:40 - 15:30 Andrzej Skowronski** (Nicolaus Copernicus University)  
*“Periodic symmetric algebras and triangulated surfaces”*
- 15:30 - 16:00** Pause-café / *Coffee break*
- 16:00 - 16:30 Ilke Canakçi** (University of Leicester)  
*“On extensions in the Jacobian algebra of a surface without punctures”*
- 16:40 - 17:10 Grégoire Dupont** (Université des Antilles et de la Guyane)  
*“Oriented triangulations, double covers and maximal green sequences”*

## Le mercredi 18 juin 2014 / *Wednesday, June 18, 2014*

- 
- 09:00 - 09:50 Jerzy Bialkowski** (Nicolaus Copernicus University)  
*“Periodic algebras of polynomial growth”*
- 10:00 - 10:30 Marta Blaszkwicz** (Nicolaus Copernicus University)  
*“Selfinjective algebras of finite representation type with maximal almost split sequences”*
- 10:30 - 11:00** Pause-café / *Coffee break*
- 11:00 - 11:30 Charles Paquette** (University of New Brunswick)  
*“Cluster categories of type A double infinity”*
- 11:40 - 12:10 Lutz Hille** (Universität Münster)  
*“On the number of tilting modules for Dynkin quivers via polytopes”*
- 12:20 - 12:50 Flavio Ulhoa Coelho** (Universidade de São Paulo)  
*“Tree oriented pullbacks”*
- 19:00 - 24:00** Soirée vins et fromages / *Wine and cheese party*  
Salle / *Room* PK-1140

## Le jeudi 19 juin 2014 / *Thursday, June 19, 2014*

- 
- 09:00 - 09:50 Benjamin Steinberg** (City College of New York)  
*“Combinatorics, topology and homological invariants of finite dimensional algebras”*
- 10:00 - 10:50 Osamu Iyama** (Nagoya University)  
*“Cohen-Macaulay representations of Geigle-Lenzing complete intersections”*
- 10:50 - 11:20** Pause-café / *Coffee break*
- 11:20 - 11:50 Octavio Mendoza Hernandez** (UNAM)  
*“Split-by-nilpotent extensions algebras and stratifying systems”*
- 12:00 - 12:30 Yuya Mizuno** (Nagoya University)  
*“ $\tau$ -tilting (silting) modules over preprojective algebras”*
- 12:30 - 14:00** Pause-déjeuner / *Lunch break*
- 14:00 - 14:30 Hagen Meltzer** (Szczecin University)  
*“Matrix factorizations for domestic singularities”*
- 14:40 - 15:30 Helmut Lenzing** (Universität Paderborn)  
*“The two-flag problem for nilpotent operators, and the role of the orbit-pad”*
- 15:30 - 16:00** Pause-café / *Coffee break*
- 16:00 - 16:30 Justyna Kosakowska** (Nicolaus Copernicus University)  
*“Varieties of invariant subspaces given by Littlewood-Richardson tableaux”*
- 16:40 - 17:10 Markus Schmidmeier** (Florida Atlantic University)  
*“No gaps but holes”*

**Le vendredi 20 juin 2014 / *Friday, June 20, 2014***

- 09:00 - 09:50 Rachel Taillefer** (Université Blaise Pascal, Clermont-Ferrand II)  
*“On generalisations of  $N$ -Koszul algebras for Brauer graph algebras”*
- 10:00 - 10:50 Sibylle Schroll** (University of Leicester)  
*“Trivial extensions of gentle algebras”*
- 10:50 - 11:20** Pause-café / *Coffee break*
- 11:20 - 11:50 Rafal Bocian** (Nicolaus Copernicus University)  
*“On nonstandard selfinjective algebras of domestic type”*
- 12:00 - 12:30 Adam Hajduk** (Nicolaus Copernicus University)  
*“On nonstandard algebras of polynomial growth”*
- 12:30 - 14:00** Pause-déjeuner / *Lunch break*
- 14:00 - 14:30 Kota Yamaura** (Yamanashi University)  
*“Tilting theory for one dimensional hypersurfaces”*
- 14:40 - 15:30 Dan Zacharia** (Syracuse University)  
*“The extended degree zero subalgebra of the Ext algebra of a linear module”*
- 15:30 - 16:00** Café / *Coffee*