

Centre de recherches mathématiques
Université de Montréal

Atelier : Progrès récents en combinatoire des mots
Du 12 au 16 mars 2007

Workshop: Recent Progress in Combinatorics on Words
March 12-16, 2007

HORAIRE / *PROGRAM*

Conférences : salle 6214
Pauses-café : salle 6245

Lectures: Room 6214
Coffee Breaks: Room 6245

Le lundi 12 mars 2007 / *Monday, March 12, 2007*

09:30 - 10:00 Inscription (5367) / *Registration (5367)*

09:30 - 10:00 Café croissants (6245) / *Coffee & Croissants (6245)*

10:00 - 11:00 **Jean Berstel** (Université de Marne-la-Vallée)
“First results on Sturmian trees”

11:00 - 12:00 **Xavier Provençal** (Université du Québec à Montréal)
“On the problem of tiling the plane with a polyomino”

12:00 - 14:00 Pause déjeuner / *Lunch Break*

14:00 - 15:00 **Petr Ambroz** (Czech Technical University)
“Matrices of morphisms preserving 3-interval exchange transformation words”

15:00 - 16:00 **Julien Cassaigne** (Institut de Mathématiques de Luminy (UMR 6206))
“Diophantine properties of automatic real numbers”

16:00 - 17:00 Café (6245) / *Coffee (6245)*

Le mardi 13 mars 2007 / *Tuesday, March 13, 2007*

09:30 - 10:00 Café croissants (6245) / *Coffee & Croissants (6245)*

10:00 - 11:00 **Alexei G. Miasnikov** (McGill University)
“Non-Archimedean words and group actions”

11:00 - 12:00 **Denis E. Serbin** (McGill University)
“Automata and infinite words : applications in Group Theory”

12:00 - 14:00 Pause déjeuner / *Lunch Break*

14:00 - 15:00 **Arye Juhasz** (The Technion Israel Institute of Tech.)
“An Application of Word Combinatorics to Group Theory”

15:00 - 16:00 **Aviezri Fraenkel** (Weizmann Institute of Science)
“Complexity of the Membership Question”

16:00 - 17:00 Café (6245) / *Coffee (6245)*

Le mercredi 14 mars 2007 / *Wednesday, March 14, 2007*

09:30 - 10:00 Café croissants (6245) / *Coffee & Croissants (6245)*

10:00 - 11:00 **Gregg Musiker** (University of California, San Diego)
“The Zeta Function of a Cyclic Language with Connections to Elliptic Curves and
Chip-Firing Games”

11:00 - 12:00 **Benjamin Steinberg** (Carleton Univ.)
“Rational codes and free clopen submonoids of free profinite monoids”

12:00 - 14:00 Pause déjeuner / *Lunch Break*

14:00 - 15:00 **Amy Glen** (Université du Québec à Montréal)
“A few words about skew and episkew words”

15:00 - 16:00 **Valérie Berthé** (Université Montpellier II)
“Sturnian fixed points of morphisms”

16:00 - 17:00 Café (6245) / *Coffee (6245)*

Le jeudi 15 mars 2007 / *Thursday, March 15, 2007*

09:30 - 10:00 Café croissants (6245) / *Coffee & Croissants (6245)*

10:00 - 11:00 **Pierre Arnoux** (Institut de Mathématique de Luminy)
“Pavages, substitutions et automorphismes de groupes”

11:00 - 12:00 **Sebastien Ferenczi** (Institut de Mathématiques de Luminy)
“Weak mixing and eigenvalues for Arnoux-Rauzy sequences”

12:00 - 14:00 Pause déjeuner / *Lunch Break*

14:00 - 15:00 **Alexandre Blondin-Massé** (Université du Québec à Montréal)
“On the critical exponent of generalized Thue-Morse sequences”

15:00 - 16:00 **Dominique Perrin** (Université de Marne-la-Vallée)
“Synchronization delay”

16:00 - 17:00 Café (6245) / *Coffee (6245)*

Le vendredi 16 mars 2007 / *Friday, March 16, 2007*

09:30 - 10:00 Café croissants (6245) / *Coffee & Croissants (6245)*

10:00 - 11:00 **Anna Frid** (Sobolev Institute of Mathematics)
“A family of factorial languages whose complexity satisfies a recurrence”

11:00 - 12:00 **Laurent Vuillon** (Université de Montréal)
“A characterization of balanced episturmian sequences”

12:00 - 14:00 Pause déjeuner / *Lunch Break*

14:00 - 15:00 **Aldo de Luca** (Università degli Studi Napoli “Federico II”)
“Pseudoepisturmian sequences”

15:00 - 16:00 **Lubomira Balkova** (Czech Technical University in Prague)
“Defects of fixed points of some substitutions”

16:00 - 17:00 Café (6245) / *Coffee (6245)*