

Centre de recherches mathématiques
Université de Montréal

Atelier «Sujets en théorie algorithmique et géométrique des groupes et
semi-groupes»
Du 23 au 27 août 2010

*Workshop “Topics in Algorithmic and Geometric Group and Semigroup
Theory”
August 23-27, 2010*

HORAIRE / *PROGRAM*

Conférences : salle 6214
Pauses-café : salle 6245

*Lectures: Room 6214
Coffee Breaks: Room 6245*

Le lundi 23 août 2010 / *Monday, August 23, 2010*

08:30 - 09:00 Inscription (salle 5345) et café-croissants (salle 6245) / *Registration (Room 5345) and Coffee & Croissants (Room 6245)*

Session - Mini-cours / *Mini-course*

09:00 - 09:50 **Benjamin Steinberg** (Carleton University)
“Automata theory and algorithmic problems in groups - I”

10:00 - 10:20 Pause-café (6245) / *Coffee break (6245)*

10:20 - 11:10 **Olga Kharlampovich** (McGill University)
“Equations in torsion free hyperbolic groups”

11:20 - 12:10 **Alexander V. Mikhalev** (Moscow State University)
“Multiplicative theory of rings”

12:20 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:50 **John Meakin** (University of Nebraska-Lincoln)
“One Relator Inverse Monoids”

15:00 - 15:20 Pause-café / *Coffee break*
(Salle / *Room* 6245)

15:20 - 16:10 **Alexei G. Miasnikov** (Stevens Institute of technology)
“Limits of groups: Zariski - Krull dimension and Cantor-Bendixon ran”

16:20 Cocktail (6245) / *Reception (6245)*

Le mardi 24 août 2010 / *Tuesday, August 24, 2010*

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

Session - Mini-cours / *Mini-course*

09:00 - 09:50 **Benjamin Steinberg** (Carleton University)
“Automata theory and algorithmic problems in groups - II”

10:00 - 10:20 Pause-café (6245) / *Coffee break (6245)*

10:20 - 11:10 **Jorge Almeida** (Universidade do Porto)
Alfredo Costa (Universidade do Porto - Faculdade de Ciências)
“Presentations of Schützenberger groups of minimal subshifts”

11:20 - 12:10 **Nicholas Touikan** (Université du Québec à Montréal)
“Finding tracks in cell complexes”

12:20 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:50 **Gilbert Baumslag** (The City College of New York)
“Random thoughts about one-relator groups”

15:00 - 15:20 Pause-café / *Coffee break*
 (Salle / *Room* 6245)

15:20 - 16:10 **Alexander A. Mikhalev** (Moscow State University)
“Automorphisms of free algebras of Schreier varieties”

Le mercredi 25 août 2010 / *Wednesday, August 25, 2010*

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

09:00 - 09:50 **Lev Shneerson** (Hunter College of CUNY)
“On the growth of finitely presented inverse semigroups”

10:00 - 10:20 Pause-café (6245) / *Coffee break (6245)*

Session - Mini-cours / *Mini-course*

10:20 - 11:10 **Denis E. Serbin** (Université de Genève)
“Subgroup Membership Problem in limit groups - I”

11:20 - 12:10 **Elena Bunina** (Moscow State University)
“Automorphisms, isomorphisms and elementary equivalence of Chevalley groups over commutative rings”

12:20 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:50 **Daniel T. Wise** (McGill University)
“Baumslag’s conjecture on the residual finiteness of one-relator groups with torsion”

15:00 - 15:20 Pause-café / *Coffee break*
 (Salle / *Room 6245*)

15:20 - 16:10 **Mark Kambites** (University of Manchester)
“Monoids acting by isometric embeddings”

Le jeudi 26 août 2010 / *Thursday, August 26, 2010*

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

Session - Mini-cours / *Mini-course*

09:00 - 09:50 **Denis E. Serbin** (Université de Genève)
“Subgroup Membership Problem in limit groups - II”

10:00 - 10:20 Pause-café (6245) / *Coffee break (6245)*

10:20 - 11:10 **Sergei Ivanov** (University of Illinois at Urbana-Champaign)
“Intersecting subgroups in free products of groups”

11:20 - 12:10 **Said Sidki** (Universidade de Brasília)
“Decision problems concerning the group of automata which have bounded growth”

12:20 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:50 **Luis Ribes** (Carleton University)
“Finite extensions of free pro- p groups”

15:00 - 15:20 Pause-café / *Coffee break*
 (Salle / *Room* 6245)

15:20 - 16:10 **Alexandre V. Borovik** (University of Manchester)
“Pseudofinite groups and black box groups”

16:20 - 16:45 **Andrey Nikolaev** (McGill University)
“Membership problem in Z^n -free groups”

16:50 - 17:15 **Elizaveta Frenkel** (Moscow State University)
“Regular subsets of free groups”

Le vendredi 27 août 2010 / *Friday, August 27, 2010*

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

09:00 - 09:50 **Paul E. Schupp** (University of Illinois at Urbana Champaign)
“Geometric group theory, generic computability, Turing reducibility and the arithmetic hierarchy”

10:00 - 10:20 Pause-café / *Coffee break*
(Salle / *Room* 6245)

10:20 - 11:10 **Ekaterina Blagoveshchenskaya** (Petersburg State Transport University)
“Almost completely decomposable groups and their endomorphism rings”

11:20 - 12:10 **Pavel Zalesski** (Universidade de Brasília)
“Pro-p limit groups”

12:20 Fin de l’atelier / *Closure of the workshop*