

17e Journées montoises d'informatique théorique – Schedule

LaBRI, Bordeaux, September 10–14, 2018

(Last modification: September 1, 2018)

Monday September 10th 2018

8h30–9h Welcome, Breakfast

9h00–9h05 Opening

9h05–10h00 Graphs for Genomic Sequences *Raluca Uricaru (Université de Bordeaux, France)*

10h05–10h30 Number of valid decompositions of Fibonacci prefixes

Bonardo Pierre, Frid Anna

10h35–11h Coffee break

11h–11h25 Formal Intercepts of Sturmian words

Wojcik Caius

11h30–11h55 Un ensemble infini décidable de points fixes sans cube additif

Jamet Damien, Lietard Florian, Stoll Thomas

15h–15h25 Unary Patterns of Size Four with Morphic Permutations

Reshadi Kamellia

15h30–15h55 Abelian Anti-Powers in Infinite Words

Fici Gabriele, Postic Mickaël, Silva Manuel

16h–16h30 Coffee break

16h30–16h55 Repetition avoidance in products of factors

Fleischmann Pamela, Ochem Pascal, Reshadi Kamellia

Tuesday September 11th 2018

8h30–9h Welcome, Breakfast

9h–9h55 Rigidity of square-tiled interval exchange transformations and translation flows

Pascal Hubert (Aix Marseille Université, France)

10h–10h25 A definition and counting of biperiodic recurrent configurations in the sandpile model on \mathbf{Z}^2

Derycke Henri, Le Borgne Yvan

10h30–11h Coffee break

11h–11h25 Computing the entropy of multidimensional subshifts of finite type under quantified block gluing restriction

Gangloff Silvère

11h30–11h55 Complexity of Robinson tiling

Galanov Ilya

15h–15h25 Rigidity for some dynamical systems of arithmetic origin

Ferenczi Sébastien, Hubert Pascal

15h30–15h55 On closed and open factors of Arnoux-Rauzy words

Parshina Olga, Zamboni Luca

16h–16h30 Coffee break

16h30–16h55 Generalized Beatty sequences and complementary triples

Dekking Michel

19h Wine tasting at **Brasserie-wine bar Latitude 20 (Cité du vin)** accompanied by cheese and cold cuts. Please allow at least 45 minutes to get there:

LaBRI $\xrightarrow[6 \text{ min}]{\text{walk}}$ Peixotto $\xrightarrow[16 \text{ stops, 30 min}]{\text{TRAM B}}$ Cité du Vin $\xrightarrow[6 \text{ min}]{\text{walk 450m}}$ Cité du Vin

or you may want to take your time, get out of TRAM B earlier and walk to destination:

LaBRI $\xrightarrow[6 \text{ min}]{\text{walk}}$ Peixotto $\xrightarrow[12 \text{ stops, 25 min}]{\text{TRAM B}}$ CAPC Musée $\xrightarrow[30 \text{ to } 60 \text{ min}]{\text{walk 2.2km}}$ Cité du Vin

Wednesday September 12th 2018

8h30–9h Welcome, Breakfast

9h–9h55 About the generalised star-height problem *Laure Daviaud (University of Warwick, UK)*

10h–10h25 Autour du déséquilibre des mots C-adiques *Andrieu Mélodie*

10h30–11h Coffee break

11h–11h25 Resynchronizing classes of word relations

Descotte María Emilia, Figueira Diego, Puppis Gabriele

11h30–11h55 Finding Short Synchronizing Words for Prefix Codes

Ryzhikov Andrew, Szykula Marek

16h–18h Guided tour, Office du tourisme, 12 cours du 30 juillet, Tram stop = Quinconces.

Please allow 40 minutes to get there:

LaBRI $\xrightarrow[6 \text{ min}]{\text{walk}}$ Peixotto $\xrightarrow[11 \text{ stops, 25 min}]{\text{TRAM B}}$ Quinconces

Thursday September 13th 2018

8h30–9h Welcome, Breakfast

9h–9h55 Simple algorithms and fast-growing complexity for well-structured systems

Philippe Schnoebelen (LSV, CNRS & ENS Paris-Saclay, France)

10h–10h25 Rigidity and Substitutive Dendric Words

Leroy Julien

10h30–11h Coffee break

11h–11h25 Fixed points of Sturmian morphisms and their derivated words

Klouda Karel, Medková Kateřina, Pelantová Edita, Štěpán Starosta

11h30–11h55 Return words and derivated sequences to Rote sequences

Medková Kateřina

15h–15h25 k-Spectra of Strictly Balanced Words

Day Joel, Fleischmann Pamela

15h30–15h55 Etude de l'automate minimal des écritures en base 2^p des multiples de l'ensemble de Thue-Morse

Charlier Émilie, Cisternino Céilia, Massuir Adeline

16h–16h30 Coffee break

16h30–16h55 Free time

Friday September 14th 2018

8h30–9h Welcome, Breakfast

9h–9h55 Nildon words

Emilie Charlier (Université de Liège, Belgique)

10h–10h25 On the group of a rational maximal bifix code

Costa Alfredo, Almeida Jorge, Kyriakoglou Revekka, Perrin Dominique

10h30–11h Coffee break

11h–11h25 Inflation of digitally convex polyominoes

Borel Jean-Pierre, Tarsissi Lama, Vuillon Laurent

11h30–11h55 Séries Q-Hadamard et Q-automates circulaires

Dando Louis-Marie, Sylvain Lombardy