

# 19th Journées Montoises d'informatique théorique

## Schedule

Nice, September 2-6 2024

### Monday September 2

13h15-13h45 [Welcome coffee](#)

13h45-14h Opening

14h-15h [The Shortest Interesting Binary Words](#), *Gabriele Fici (Palermo, Italy)*

15h-15h30 A connection between unbordered partial words and sparse rulers, *A. Vanhatalo, A. Saarela*

15h30-16h The asymptotic repetition threshold of sequences rich in palindromes, *L. Dvořáková, K. Klouda, E. Pelantova*

### Tuesday September 3

9h-10h [Binomial : coefficients, equivalence, complexity, and beyond](#), *Manon Stipulanti (Liège, Belgium)*

10h-10h30 [Coffee break](#)

10h30-11h  $q$ -deformed binomial coefficients of words, *A. Renard, M. Rigo, M. A. Whiteland*

11h-11h30 Addition in Dumont-Thomas numeration systems in theory and practice, *O. Carton, J-M. Couvreur, M. Delacourt, N. Ollinger*

11h30-12h Confluent numeration systems, *S. Kreczman, E. Charlier, Z. Masáková, E. Pelantova*

12h-14h [Lunch](#)

14h-14h30 On  $S$ -adic representation of numbers with integer expansion in Cantor real base, *Z. Masáková*

14h30-15h Normalité en bases bêta et fractions continues, *R. Laureti*

15h-15h30 Sur l'écriture des entiers algébriques et leurs liens avec les fractales de Rauzy, *A. Bertrand*

### Wednesday September 4

9h-10h [Formalizing languages generated by a morphism in Isabelle/HOL](#), *Štěpán Starosta (Prague, Czech Republic)*

10h-10h30 [Coffee break](#)

10h30-11h Finite monoids of closure operators : a variant of Kuratowski's theorem, *P. Caron*

11h-11h30 Ammann bars for octagonal tilings, *C. Porrier, T. Fernique*

11h30-12h HBS tilings extended : state of the art and novel observations, *C. Porrier*

12h-13h [Lunch](#)

14h-17h [Social event : Visit of the astronomical observatory of Nice Mont Gros](#)

19h30-22h30 [Conference banquet : Restaurant l'Union](#)

### Thursday September 5

9h-10h [Weird and Wonderful Words](#), *Golnaz Badkobeh (London, United-Kingdom)*

10h-10h30 [Coffee break](#)

10h30-11h Additive word complexity and Walnut, *P. Popoli, J. Shallit, M. Stipulanti*

11h-11h30 Column representation of Episturmian words in cellular automata, *F. Dolce, P-A. Tahay*

11h30-12h An Abelian renormalization process on infinite words, *M. Andrieu, L. Vivion*

12h-14h [Lunch](#)

14h-14h30 Imbalances in hypercubic billiard words (II), *M. Andrieu, L. Vivion*

14h30-15h Language of a billiard trajectory inside a cube, *N. Bédaride, J. Cassaigne, M. Barro*

15h-15h30 On the  $k$ -binomial complexity of hypercubic billiard words, *L. Vivion*

### Friday September 6

9h-10h [Word reconstruction using queries on subwords or factors](#), *Matthieu Rosenfeld (Montpellier, France)*

10h-10h30 [Coffee break](#)

10h30-11h On the minimal components of substitution subshifts, *R. Henry*

11h-11h30 Stability of return groups, *F. Gheeraert, H. Goulet-Ouellet, J. Leroy, P. Stas*

11h30-12h Testing equality in the algebra  $\langle U : (x, y) \rightarrow x + y, x \rightarrow x \rangle$ , *C. Choffrut*

12h-12h30 On state complexity for subword-closed languages, *J. Guyot*

12h30-12h45 Closing