

Numeration 2018

Paris, May 22–25, 2018

Tuesday

9.25 – 9.30	opening	
9.30 – 10.25	Edita Pelantová	On spectra of numbers
10.30 – 11.00	coffee break	
11.00 – 11.25	Kevin Hare	Random homogeneous beta-expansions and self-similar measures
11.30 – 11.55	Nikita Sidorov	Open maps: small and large holes
12.00 – 12.25	Derong Kong	Unique expansions on fat Sierpinski gaskets
14.30 – 14.55	Attila Pethő	Number systems over orders
15.00 – 15.25	Jonas Jankauskas	Characterization of rational matrices that admit finite digit representations
15.30 – 15.55	Tomáš Vávra	Periodic representations in Salem bases
16.00 – 16.30	coffee break	
16.30 – 16.55	Christoph Bandt	Establishing and maintaining databases of self-affine tiles
17.00 – 17.20	Shuqin Zhang	Topology of a class of self-affine tiles in \mathbb{R}^3
17.20 – 17.40	Peter Hudoba	Toolset for supporting the number system research
17.40 – 18.00	Jakub Krásenský	Infinite families of number systems

Wednesday

9.30 – 9.55	Horst Brunotte	Integer multipliers of real polynomials without nonnegative roots
10.00 – 10.25	Arturas Dubickas	Multiplicative dependence of shifted algebraic numbers
10.30 – 11.00	coffee break	
11.00 – 11.25	Tomáš Hejda	Totally positive quadratic integers and numeration
11.30 – 11.50	Magdaléna Tinková	Indecomposable integers and universal quadratic forms
11.50 – 12.10	Wolfgang Stockinger	Some negative results related to Poissonian pair correlation problems
12.10 – 12.30	Marta Maggioni	Constructing invariant densities for random systems
12.30 – 12.55	Alfonso D. Rodriguez	Fundamental domains for rational function based digit systems of formal Laurent series over finite fields

Thursday

9.30 – 10.25	Robert Tichy	Normality, computability and discrepancy
10.30 – 11.00	coffee break	
11.00 – 11.25	Ligia L. Cristea	On the magic of some families of fractal dendrites
11.30 – 11.55	Daniel Krenn	Multi-base representations and their minimal Hamming weight
12.10 – 13.00	Pablo Rotondo	Continued Logarithm Algorithm: A probabilistic study (Combinatorics seminar of the IRIF)
14.30 – 14.55	Clemens Müllner	Möbius orthogonality for automatic sequences and beyond
15.00 – 15.25	Lukas Spiegelhofer	The level of distribution of the Thue–Morse sequence
15.30 – 15.55	Cathy Swaenepoel	Digital questions in finite fields
16.00 – 16.30	coffee break	
16.30 – 16.55	Manfred Madritsch	The sum-of-digits function of linearly recurrent number systems and almost primes
17.00 – 17.25	Bill Mance	Some complexity results in the theory of normal numbers
17.30 – 17.55	Roman Nikiforov	Essentially non-normal numbers for Cantor series expansions
19.00	conference dinner	at the Barge du CROUS de Paris, Port de la Gare, Quai François Mauriac, 75013 Paris

Friday

9.30 – 9.55	Radhakrishnan Nair	On Schneider’s continued fraction map on a complete non-Archimedean field
10.00 – 10.25	Francesco Veneziano	An effective criterion for periodicity of l -adic continued fractions
10.30 – 11.00	coffee break	
11.00 – 11.25	Niels Langeveld	Ito α -continued fractions and matching
11.30 – 11.55	Paul Surer	Symmetric and congruent Rauzy fractals
12.00 – 12.25	Jörg Thuswaldner	Some news on rational self-affine tiles
14.00 – 14.25	Arnaldo Nogueira	Rotation number of contracted rotations
14.30 – 14.55	Anne Bertrand-Mathis	On the β -expansions of integers of $\mathbb{Z}[\beta]$; connections with self similar tilings
15.00 – 15.25	J.-L. Verger-Gaugry	Lenticular poles of the dynamical zeta function of the beta-shift for simple Parry numbers close to one