

HORAIRE / *PROGRAM*

ATELIER 1 : PROBABILITÉS LIBRES
LA THÉORIE, SES EXTENSIONS

4 au 8 mars 2019

WORKSHOP 1: FREE PROBABILITY
THE THEORY, ITS EXTENSIONS

March 4– 8, 2019

CONFÉRENCES : salle 1360 (Pavillon André-Aisenstadt)

PAUSES-CAFÉ : salle 6245 (Salon Maurice-l'Abbé, Pavillon André-Aisenstadt)

LECTURES: *Room 1360 (Pavillon André-Aisenstadt)*

COFFEE BREAKS: *Room 6245 (Salon Maurice-l'Abbé, Pavillon André-Aisenstadt)*

Le lundi 4 mars 2019 / Monday, March 4, 2019

08:30–09:00 Inscription (salle 5345) et Café (salle 6245)
Registration (Room 5345) and Coffee (Room 6245)

09:00–09:40 Dan-Virgil Voiculescu (University of California at Berkeley)
“A hydrodynamic exercise in free probability: free Euler equations”

09:45–10:25 Paul Skoufranis (York University)
“Non-microstate bi-free entropy”

10:30–11:00 Pause-café / *Coffee break*

11:00–11:40 Michael Brannan (Texas A&M University)
“Free probability and the operator algebras of free quantum groups”

11:45–12:25 Moritz Weber (Universität des Saarlandes)
“News from easy and non-easy quantum groups”

12:30–15:30 Pause-déjeuner et discussions / *Lunch Break and Discussions*

15:30–16:00 Pause-café / *Coffee break*

16:00–16:40 Kurusch Ebrahimi-Fard (Norwegian University of Science and Technology)
“Conditionally free cumulants from a shuffle algebra viewpoint”

Le mardi 5 mars 2019 / Tuesday, March 5, 2019

08:30–09:00 Café croissants / *Coffee & Croissants*

09:00–09:40 Alexandru Nica (University of Waterloo)

“A theorem of the central limit type, in the framework of the infinite symmetric group”

09:45–10:25 Doron Puder (Tel Aviv University)

“Traces of random elements in matrix groups, with distributions induced by words”

10:30–11:00 Pause-café / *Coffee break*

11:00–11:40 Michael Magee (Durham University)

“Unitary matrix integrals and automorphisms of free groups”

11:45–12:25 Ian Charlesworth (University of California, Berkeley)

“Free Stein information”

12:30–14:45 Pause-déjeuner et discussions / *Lunch Break and Discussions*

14:45–15:25 Tobias Mai (Universität des Saarlandes)

“The free field meets free probability theory”

15:30–16:00 Pause-café / *Coffee break*

16:00–16:40 Jiun-Chau Wang (University of Saskatchewan)

“Free multiplicative superconvergence and cusp universality”

Le mercredi 6 mars 2019 / Wednesday, March 6, 2019

08:30–09:00 Café croissants / *Coffee & Croissants*

09:00–09:40 Guillaume Cébron (Université Paul Sabatier)
“Traffic independence and freeness over the diagonal”

09:45–10:25 Marwa Banna (Universität des Saarlandes)
“Linearizations meet the noncommutative Lindeberg method”

10:30–11:00 Pause-café / *Coffee break*

11:00–11:40 Weihua Liu (Indiana University Bloomington)
“Relations between noncommutative convolutions”

11:45–12:25 David Jekel (University of California, Los Angeles)
“Non-commutative independences defined by trees”

12:30–14:45 Pause-déjeuner et discussions / *Lunch Break and Discussions*

Après-midi libre / *Free afternoon*

Dîner au restaurant / *Conference Dinner*

Le jeudi 7 mars 2019 / Thursday, March 7, 2019

08:30–09:00 Café croissants / *Coffee & Croissants*

09:00–09:40 Octavio Arizmendi Echegaray (Centro de Investigación en Matemáticas)
“On Monotone and Boolean Cyclic Independence”

09:45–10:25 Brent Nelson (Vanderbilt University)
“Free products of finite-dimensional von Neumann algebras and free Araki-Woods factors”

10:30–11:00 Pause-café / *Coffee break*

11:00–11:40 Benjamin Christopher Landon (Massachusetts Institute of Technology)
“Applications of homogenization theory of Dyson Brownian motion”

11:45–12:25 À venir / *TBA*

12:30–14:45 Pause-déjeuner et discussions / *Lunch Break and Discussions*

14:45–15:25 Hao-Wei Huang (National Sun Yat-sen University)
“Bi-free extreme values”

15:30–16:00 Pause-café / *Coffee break*

16:00–16:40 Claus Köstler (University College Cork)
“Markovianity as a distributional symmetry”

Le vendredi 8 mars 2019 / *Friday, March 8, 2019*

08:30–09:00 Café croissants / *Coffee & Croissants*

09:00–09:40 Michael Anshelevich (Texas A&M University)
“Higher variations for free Levy processes”

09:45–10:25 Mihai Popa (The University of Texas at San Antonio)
“Permutations of entries and asymptotic free independence for several classes of random matrices”

10:30–11:00 Pause-café / *Coffee break*

11:00–11:40 Yoshimichi Ueda (Nagoya University)
“Matrix liberation process”

11:45–12:25 Ken Dykema (Texas A&M University)
*“Asymptotic *-moments of random Vandermonde matrices”*

12:30– Fin de l’atelier / *End of the workshop*