

RANDOM MAPS AND MATRICES FROM A GEOMETRIC PERSPECTIVE

(UMPA, ENS DE LYON, MAY 20-24, 2019)

Venue:

- Talks: amphi A, 4th floor.
- Coffee breaks: salle passerelle, central common room, 4th floor.
- Lunch breaks Monday and Friday: buffet in salle passerelle. Lunch breaks Tuesday and Thursday: tray meals in salle passerelle.
- Please note there will be no lunch provided on Wednesday.
- Conference dinner: Wednesday evening at 20h.

Schedule:

	Monday	Tuesday	Wednesday	Thursday	Friday
8h50–9h00	Welcome address				
9h00–9h45	Amini 1/3	Helmuth	Bernardi 2/3	Eynard 2/3	Biane
9h45–10h30					Garcia-Failde
10h30–11h	coffee break	coffee break	coffee break	coffee break	coffee break
11h–11h45	Bernardi 1/3	Eynard 1/3	Albenque	Amini 3/3	Eynard 3/3
11h45–12h30			Budzinski		
12h30–14h00	lunch break	lunch break	lunch break	lunch break	lunch break
14h00–14h45	Lévy	Amini 2/3	∅	Bernardi 3/3	∅
14h45–15h30	Augeri				
15h30–16h15	coffee break	coffee break		coffee break	coffee break
16h15–17h				Sabot	

Minicourses (3 times 1h30):

- Omid Amini, *Combinatorial aspects of asymptotic Hodge theory*
- Olivier Bernardi, *Bijections for maps: beautiful and powerful*
- Margherita Disertori (cancelled), *The role of fermions and supersymmetry in stochastic processes*
- Bertrand Eynard, *The topological recursion: a recursive method to compute large N expansions in random matrices, and to enumerate maps, and solve various enumerative geometry problems*

Talks (45 minutes):

- Marie Albenque, *Random triangulations coupled with an Ising model*
- Fanny Augeri, *Nonlinear large deviation bounds with applications to sparse Erdős–Rényi graphs*
- Philippe Biane, *Sums of random matrices and conformal mapping*
- Thomas Budzinski, *Local limits of uniform triangulations in high genus*
- Elba Garcia-Failde, *Relating ordinary and fully simple maps via monotone Hurwitz numbers*
- Tyler Helmuth (1h30), *The geometry of random walk isomorphism theorems*
- Thierry Lévy, *Gauge invariant functions, spin networks, and the Laplacian determinant*
- Christophe Sabot, *Polynomial localisation of the 2D-VRJP*