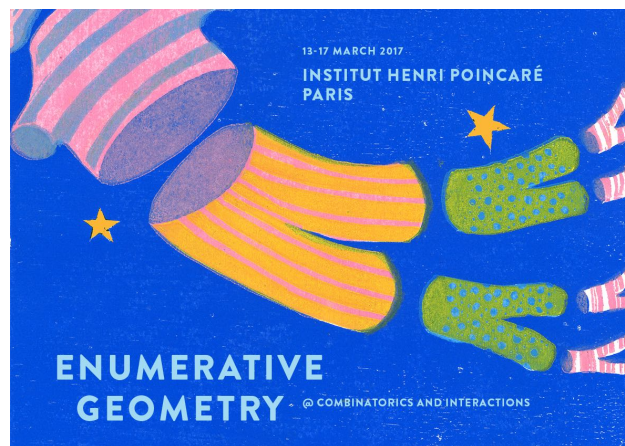


« **Combinatorics and Interactions** »
Paris, January 9th – March 31st, 2017

Workshop on ENUMERATIVE GEOMETRY
Paris, March 13th – 17th, 2017
Amphitheater Hermite



Organizers : Gaëtan Borot (MPIM Bonn) and Alessandro Chiodo (IMJ – UPMC – Paris 6)

Invited speakers :

Omid Amini (DMA ENS)

Alexander Buryak (ETH Zürich)

Bertrand Eynard (IPHT CEA Saclay)

Omar Foda (University of Melbourne)

Stavros Garoufalidis (Georgia Tech)

Jérémy Guéré (Humboldt Universität zu Berlin)

John Harnad (CRM Montréal, Concordia University and IHES)

Tamás Hausel (IST Vienna)

Felix Janda (Central Michigan University)

Emmanuel Letellier (IMJ-PRG – Jussieu Rive Gauche)

Dino Lorenzini (University of Georgia)

Hannah Markwig (Tübingen Universität)

Martin Möller (Frankfurt Universität)

Motohico Mulase (UC Davis)

Rahul Pandharipande (ETH Zürich)

Hugo Parlier (Université du Luxembourg)

Bram Petri (Bonn Universität)

Aaron Pixton (MIT)

Konstanze Rietsch (King's College)

Don Zagier (MPIM Bonn)

Anton Zorich (IMJ-PRG – Jussieu Rive Gauche)

PROGRAM

Monday March 13th

- 09.30 am – 10.00 am **Registration and welcome coffee** – IHP ground floor
- 10.00 am – 10.50 am **Hannah Markwig** Counting curls and hunting monomials: Tropical mirror symmetry of elliptic curves.
- 11.00 am – 11.50 am **Rahul Pandharipande** Descendent invariants in the theory of stable pairs.
- 11.50 am – 01.45 pm Lunch break – Free time
- 01.45 pm – 02.35 pm **Jérémy Guéré** Enumerative theory of complex curves from singularities.
- 02.45 pm – 03.35 pm **Felix Janda** Faber's tautological relations.
- 03.40 pm – 04.10 pm Coffee break IHP ground floor
- 04.10 pm – 05.00 pm **Aaron Pixton** Cycle-quasimodularity of elliptic curve invariants.

Tuesday March 14th

- 09.30 am – 10.00 am **Coffee break** IHP ground floor
- 10.00 am – 10.50 am **Tamás Hausel** Refined geometric invariants and representation theory.
- 11.00 am – 11.50 am **Hugo Parlier** Interrogating length spectra and quantifying isospectral finiteness.
- 11.50 am – 01.45 pm Lunch break – Free time
- 01.45 pm – 02.35 pm **Martin Möller** Volumes and Siegel-Veech constants for moduli space of flat surfaces I.
- 02.50 pm – 03.40 pm **Anton Zorich** Random square-tiled surfaces, meanders, and Masur-Veech volumes.
- 03.40 pm – 04.10 pm Coffee break IHP ground floor
- 04.10 pm – 05.00 pm **Don Zagier** Volumes and Siegel-Veech constants for moduli space of flat surfaces II.

06.00 pm – 09.00 pm Cocktail Dinner/Poster session – IHP ground floor

Wednesday March 15th

- 09.30 am – 10.30 am **John Harnad** Weighted Hurwitz numbers and topological recursion I.
- 10.30 am – 11.00 am **Coffee break** IHP ground floor
- 11.00 am – 11.50 am **Bertrand Eynard** Weighted Hurwitz numbers and topological recursion II.
- 12.00 pm – 12.50 pm **Motohico Mulase** From Cayley to Hurwitz to Hitchin.

Thursday March 16th

09.30 am – 10.00 am **Coffee break**

IHP ground floor

***10.00 am – 10.50 am**

Bram Petri

Random low-dimensional manifolds.

***11.00 am – 11.50 pm**

Omar Foda

Refining the refined topological vertex.

11.50 pm – 01.45 pm Lunch break – Free time

01.45 pm – 02.35 pm **Alexander Buryak**

Integrable hierarchies and tautological relations.

02.45 pm – 03.35 pm **Omid Amini**

Limits of linear series on degenerating families of curves: a fruitful example of interactions between combinatorics and algebraic geometry.

03.40 pm – 04.10 pm **Coffee break**

IHP ground floor

04.10 pm – 05.00 pm **Dino Lorenzini**

Intersection matrices and Néron models.

Friday March 17th

09.30 am – 10.20 am **Konstanze Rietsch**

Grassmannians and polytopes.

10.30 am – 11.00 am **Coffee break**

IHP ground floor

11.00 am – 11.50 am **Emmanuel Letellier**

Counting geometrically indecomposable parabolic bundles on P^1 .

12.00 am – 12.50 pm **Stavros Garoufalidis**

Counting surfaces in 3-manifolds and the 3d index.

Abstracts are available on the website of the trimester « **Combinatorics and Interactions** »: <http://combi17.math.cnrs.fr/?sec=workshop3>



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