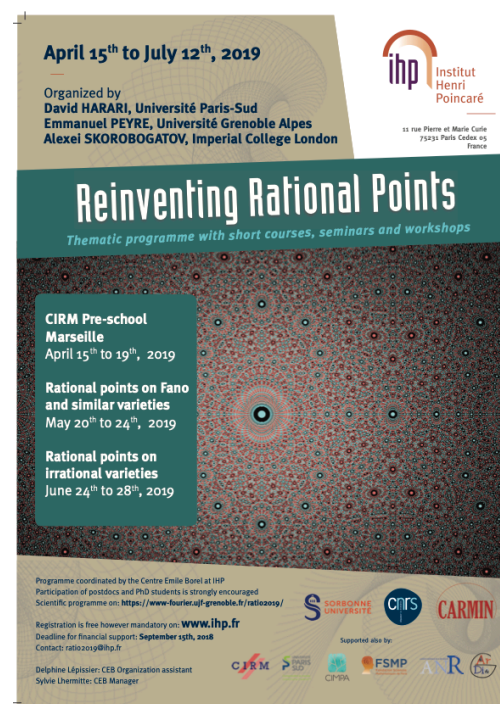


«Reinventing Rational Points»
Paris, April 15th – July 12th, 2019

Conference «Rational Points on Fano and Similar Varieties»
Paris, May 20th – 24th, 2019
Amphitheater Hermite



All lectures will be videotaped



Organizers: Tim Browning (University of Bristol and IST Austria) and Emmanuel Peyre (Université Grenoble-Alpes)

Invited Speakers:

Margaret Bilu (Courant Institute of Mathematical Sciences)

Julia Brandes (Chalmers / University of Gothenburg)

Antoine Chambert-Loir (Université Paris-Diderot)

Jean-Louis Colliot-Thélène (Mathématiques, Université Paris-Sud)

Cyril Demarche (IMJ-PRG, Sorbonne Université)

David Harari (Université Paris Sud)

Julia Hartmann (University of Pennsylvania)

Pierre Le Boudec (Universität Basel)

Daniel Loughran (The University of Bath)

Bjorn Poonen (Massachusetts Institute of Technology)

Cecília Salgado (UFRJ)

Per Salberger (Chalmers Univ. of Technology)

Will Sawin (Columbia University)

Arne Smeets (Radboud Universiteit Nijmegen)

Efthymios Sofos (Max Planck Institute for Mathematics, Bonn)

Sho Tanimoto (Kumamoto University, Japan)

Olivier Wittenberg (Université Paris-Sud)

Fei Xu (Capital Normal University)

PROGRAM

Monday MAY 20th

09.00 am – 09.30 am	Registration and welcome coffee – IHP ground floor	
09.30 am – 10.30 am	Jean-Louis Colliot-Thélène	Obstruction de Brauer-Manin pour les surfaces de Markoff.
10.30 am – 11.00 am	Coffee break	
11.00 am – 12.00 pm	Margaret Bilu	Motivic Euler products.
12.00 pm – 02.30 pm	Lunch break	
02.30 pm – 03.30 pm	Sho Tanimoto	Sections of del Pezzo fibrations over P^1 .
03.30 pm – 04.00 pm	Coffee break	IHP ground floor
04.00 pm – 05.00 pm	David Harari	Complexes of tori and rational points on homogeneous spaces over a function field.

Tuesday MAY 21st

09.30 am – 10.30 am	Will Sawin	On a conjecture of Poonen and Voloch I: Probabilistic models for counting rational points on random Fano hypersurfaces.
10.30 am – 11.00 am	Coffee break	IHP ground floor
11.00 am – 12.00 pm	Pierre Le Boudec	On a conjecture of Poonen and Voloch II: Lattice point counting and the variance of the number of rational points on Fano hypersurfaces.
12.00 pm – 02.30 pm	Lunch break	
02.30 pm – 03.30 pm	Cecília Salgado	Mordell Weil rank jumps and the Hilbert property.
03.30 pm – 04.00 pm	Coffee break	IHP ground floor
04.00 pm – 05.00 pm	Cyril Demarche	Structure of homogeneous spaces and applications to local-global principles.
06.00 pm – 08.00 pm	Cocktail Reception	IHP ground floor

Wednesday MAY 22nd

09.30 am – 10.30 am	Bjorn Poonen	The local-global principle for stacky curves.
10.30 am – 11.00 am	Coffee break	IHP ground floor
11.00 am – 12.00 pm	Arne Smeets	Campana's orbifolds, points of bounded height and fibrations.
12.00 pm – 02.30 pm	Lunch break	
02.30 pm – 03.30 pm	Julia Hartmann	Local-global principles for tori over arithmetic surfaces.
03.30 pm – 04.00 pm	Coffee break	IHP ground floor
04.00 pm – 05.00 pm	Efthymios Sofos	Serre's problem for diagonal conics.

Thursday MAY 23rd

09.30 am – 10.30am	Per Salberger	Counting rational points of cubic hypersurfaces.
10.30 am – 11.00 am	Coffee break	IHP ground floor
11.00 am – 12.00 pm	Olivier Wittenberg	Approximation fine pour les points rationnels sur les corps de fonctions.
12.00 pm – 02.30 pm	Lunch break	
02.30 pm – 03.30 pm	Daniel Loughran	A quantitative version of the fibration method.
03.30 pm – 04.00 pm	Coffee break	IHP ground floor
04.00 pm – 05.00 pm	Julia Brandes	Rational lines on cubic hypersurfaces.

Friday MAY 24th

09.30 am – 10.30 am	Fei Xu	Strong approximation for a family of norm varieties.
10.30 am – 11.00 am	Coffee break	IHP ground floor
11.00 am – 12.00 pm	Antoine Chambert-Loir	Integral points of bounded height on toric varieties — reloaded.
Lunch break – End of the Conference		

More information of the trimester «Reinventing Rational Points»: <https://www-fourier.ujf-grenoble.fr/ratio2019/semaines.php?semaine=6>



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