

Workshop Model Theory of Valued fields

5 - 9 March 2018, IHP, amphitheater Hermite

Scientific Committee

[Zoé Chatzidakis](#) (CNRS – ENS)

[Antoine Ducros](#) (UPMC)

[Martin Hils](#) (Münster)

[Tom Scanlon](#) (UC Berkeley, chair)

For more information, please visit <http://modvac18.math.ens.fr/W2.html>

«Model Theory, Combinatorics and Valued Fields»
Paris January 8th – April 6th, 2018

«Model Theory of Valued fields»
Paris, March 5th – 9th, 2018

Amphitheatres Hermite and Darboux (Retransmission)



All lectures will be videotaped



Scientific Committee: Zoé Chatzidakis (CNRS – ENS), Antoine Ducros (Sorbonne Université), Martin Hils (Universität Münster), Tom Scanlon (UC Berkeley, chair)

Invited speakers:

Sylvy Anscombe (UCLAN)
Matthias Aschenbrenner (UCLA)
Antoine Chambert-Loir (Paris Diderot)
Raf Cluckers (CNRS Lille)
Françoise Delon (CNRS – Paris 7)
Arthur Forey (Sorbonne Université)
Julia Gordon (U. British Columbia)
Immanuel Halupczok (Düsseldorf)

Ehud Hrushovski (Oxford)
Franziska Jahnke (Münster)
Will Johnson (Niantic)
Jochen Koenigsmann (Oxford)
Franz-Viktor Kuhlmann (Szczecin)
François Loeser (Sorbonne Université)
Matthew Morrow (CNRS – Sorbonne Université)

Sam Payne (Yale)
Jerôme Poineau (Caen)
Florian Pop (U. of Pennsylvania)
Sylvain Rideau (CNRS – Paris Diderot)
Romain Rioux (Paris)
Bernard Teissier (IMJ – PRG)
Michael Temkin (Hebrew University)

PROGRAM

Monday March 5th

- 09.00 am – 09.30 am** **Registration and welcome coffee – IHP ground floor**
09.30 am – 10.20 am **Matthias Aschenbrenner** Dimension and automorphisms in the differential field of transseries.
10.20 am – 10.50 am Coffee break IHP ground floor
10.50 am – 11.40 am **Jochen Koenigsmann** On the decidability of \mathbb{Q}_p^{ab} .
11.40 am – 02.00 pm Lunch break
02.00 pm – 02.50 pm **Will Johnson** Multi-valued algebraically closed fields are NTP2.
03.00 pm – 03.50 pm **Franziska Jahnke** NIP Henselian fields.
03.50 pm – 04.20 pm Coffee break IHP ground floor
04.20 pm – 05.10 pm **Sylvy Anscombe** A p-adic analogue of Siegel's Theorem on sums of squares.

Tuesday March 6th

- 09.30 am – 10.20 am **Antoine Chambert-Loir** Motivic height zeta functions and motivic Euler products.
10.20 am – 10.50 am Coffee break IHP ground floor
10.50 am – 11.40 am **Jerôme Poineau** Definability of Berkovich curves.
11.40 am – 02.00 pm Lunch break
02.00 pm – 02.50 pm **Bernard Teissier** Zero dimensional valuations on equicharacteristic noetherian local domains.
03.00 pm – 03.50 pm **Franz-Viktor Kuhlmann** Pushing back the barrier of imperfection.
03.50 pm – 04.20 pm Coffee break IHP ground floor.
04.20 pm – 05.10 pm **Michael Temkin** Topological transcendence degree.
05.10 pm – 06.00 pm **Poster session**

05.30 pm – 08.00 pm Wine and Cheese Reception – IHP Ground floor and Room 01

Wednesday March 7th

- 09.30 am – 10.20 am **Ehud Hrushovski** Specialization of difference equations in positive characteristic.
10.20 am – 10.50 am Coffee break IHP ground floor
10.50 am – 11.40 am **Françoise Delon** C-minimal valued fields.
11.50 am – 12.40 pm **Romain Rioux** On the axiomatisation of \mathbb{C}_p with roots of unity.

Free Afternoon

Thursday March 8th

09.30 am – 10.20 am	François Loeser	A non-archimedean Ax-Lindemann theorem.
10.20 am – 10.50 am	Coffee break	IHP ground floor
10.50 am – 11.40 am	Raf Cluckers	Uniform p-adic wave front sets and zero loci of functions of C^{exp} -class.
11.40 am – 02.00 pm	Lunch break	
02.00 pm – 02.50 pm	Julia Gordon	Motivic integration and p-adic reductive groups.
03.00 pm – 03.50 pm	Immanuel Halupczok	An analogue of o-minimality for valued fields.
03.50 pm – 04.20 pm	Coffee break	IHP ground floor
04.20 pm – 05.10 pm	Arthur Forey	Virtual rigid motives of definable sets in valued fields.

Friday March 9th

09.30 am – 10.20 am	Sam Payne	Tropical motivic integration.
10.20 am – 10.50 am	Coffee break	IHP ground floor
10.50 am – 11.40 am	Matthew Morrow	An introduction to perfectoid spaces and the tilting correspondence.
11.40 am – 02.00 pm	Lunch break	
02.00 pm – 02.50 pm	Silvain Rideau	Toward an imaginary Ax-Kochen-Ershov principle.
03.00 pm – 03.50 pm	Florian Pop	On definability of valuations of finitely generated fields.
03.50 pm – 04.30 pm	Coffee break	IHP ground floor

Abstracts are available on the website of the trimester «Analysis in Quantum Information Theory» <http://modvac18.math.ens.fr/W2.html>

