p-adic Hodge Theory and Applications
26-30 September 2022
L4

Schedule

Monday 26 September

9:30-10:30	Lars Hesselholt, *Dirac geometry*
10:30-11:00	Coffee
11:00-12:00	Ben Antieau, *The nilpotency of v_1 in the K-theory of Z/p^n*
12:00-14:00	Lunch
14:00-15:00	Matthew Morrow, *Motivic cohomology through the looking-glass*
15:00-15:30	Coffee
15:30-16:30	Kestutis Česnavičius, *Adic continuity for flat cohomology*

Tuesday 27 September

9:30-10:30	Wieslawa Niziol, *On compactly supported p-adic pro-etale cohomology of rigid analytic spaces*
10:30-11:00	Coffee
11:00-12:00	Arthur-Cesar Le Bras, *Relative Banach-Colmez spaces*
12:00-14:0	Lunch
14:00-15:00	Toby Gee, *Moduli stacks of (phi,Gamma)-modules and the categorical p-adic Langlands correspondence*
15:00-15:30	Coffee
15:30-16:30	Matthew Emerton, *Moduli stacks of (phi,Gamma)-modules and the categorical p-adic Langlands correspondence*

Wednesday, 28 September – Clay Research Conference, L1

10:00-11:00	Bhargav Bhatt, *Vanishing theorems in algebraic geometry*
11:00-11:30	Coffee
11:30-12:30	Kevin Costello, *Scattering amplitudes and vertex algebras*
12:30-14:00	Lunch
14:00-15:00	Igor Rodnianski, *(some) Things you always wanted to know about Mathematical General Relativity (but were too afraid to ask)*
15:00-15:30	Coffee
15:30-16:30	Jacob Tsimerman, *The André—Grothendieck Period conjecture over function fields*
16:30-17:30	Peter Scholze, *The work of Bhargav Bhatt*
	Ulrike Tillmann, *The work of Søren Galatius and Oscar Randal-Williams*
	Presentation of the 2021 and 2022 Clay Research Awards
17:30-19:00	Reception in the Mathematical Institute

Thursday 29 September

9:30-10:30	Hélène Esnault, *Integrality properties of the Betti moduli space*
10:30-11:00	Coffee
11:00-12:00	Ofer Gabber, *Flattening for non noetherian formal schemes*

12:00-14:00   Lunch
14:00-15:00   Linquan Ma, *Perfectoid signature and an application to local fundamental groups*
15:00-15:30   Coffee
15:30-16:30   David Hansen, *Geometrization of the p-adic Langlands correspondence: first steps*

Friday 30 September

9:30-10:30   Laurent Fargues, *Some explicit compact generators for lisse complexes on Bun_G*
10:30-11:00   Coffee
11:00-12:00   Pierre Colmez, *On Emerton's factorisation of completed cohomology*
12:00-13:30   Lunch
13:30-14:30   Xinwen Zhu (L1), *The p-adic Borel hyperbolicity of A_g*