

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 \mathbb{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 Wiesława Nizioł, *On compactly supported p-adic pro-étale cohomology of rigid analytic spaces*
10:30-11:00 Coffee
11:00-12:00 Arthur-Cesar Le Bras, *Relative Banach-Colmez spaces*
12:00-14:00 Lunch
14:00-15:00 Toby Gee, *Moduli stacks of (ϕ, Γ) -modules and the categorical p-adic Langlands correspondence*
15:00-15:30 Coffee
15:30-16:30 Matthew Emerton, *Moduli stacks of (ϕ, Γ) -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 David Hansen, *Geometrization of the p-adic Langlands correspondence: first steps*
10:30-11:00 Coffee
11:00-12:00 Ofer Gabber

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 Hélène Esnault, *Integrality properties of the Betti moduli space*

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*