**p-adic cohomology and arithmetic geometry 2018**

2018 November 5–9  
Tohoku University, Aoba Science Hall, Science Complex C, 2nd Floor

**Program**

**November 5, Monday**

9:30–10:00  Registration

10:00–11:00  **Hattori, Shin**  (Tokyo City University)  
Duality of Drinfeld modules and \(p\)-adic properties of Drinfeld modular forms

11:15–12:15  **Groechenig, Michael**  (University of Toronto)  
A higher-dimensional generalisation of the epsilon connection

Lunch Break

13:30–14:30  **Koshikawa, Teruhisa**  (Kyoto University)  
\(A_{\text{inf}}\)-cohomology in the semistable case

15:00–16:00  **Xu, Daxin**  (California Institute of Technology)  
On higher direct images of convergent isocrystals

**November 6, Tuesday**

10:00–11:00  **Miyatani, Kazuaki**  (Hiroshima University)  
\(p\)-adic hypergeometric \(\mathcal{D}\)-modules and multiplicative convolution

11:15–12:15  **Leal, Isabel**  (New York University)  
Refined Swan conductors mod \(p\) of one-dimensional Galois representations

Lunch Break

13:30–14:30  **Abe, Tomoyuki**  (University of Tokyo)  
Nearby cycles for arithmetic \(\mathcal{D}\)-modules

15:00–16:00  **Ambrosi, Emiliano**  (Ecole Polytechnique)  
Monodromy groups of convergent isocrystals and applications

16:15–17:15  **Lazda, Christopher**  (University of Amsterdam)  
Local acyclicity in \(p\)-adic cohomology
November 7, Wednesday

9:45–10:45  **Ohkubo, Shun** (Nagoya University)
Logarithmic growth filtrations for \((\varphi, \nabla)\)-modules over the bounded Robba ring

11:00–12:00 **Kramer-Miller, Joe** (University College London)
Ramification of \(p\)-adic etale sheaves coming from ordinary \(F\)-isocrystals on curves

**Excursion**

Reception at an izakaya

November 8, Thursday

10:00–11:00  **Wakabayashi, Yasuhiro** (Tokyo Institute of Technology)
Symplectic aspects of the \(p\)-adic Teichmüller uniformization

11:15–12:15 **Yobuko, Fuetaro** (Nagoya University)
On quasi-Frobenius split height and quasi-Frobenius split schemes

**Lunch Break**

13:30–14:30 **Ito, Kazuhiro** (Kyoto University)
CM liftings of K3 surfaces over finite fields and the Tate conjecture

15:00–16:00 **Matsumoto, Yuya** (Tokyo University of Science)
\(\mu_p\) and \(\alpha_p\)-actions on K3 surfaces in characteristic \(p\)

16:15–17:15 **Kai, Wataru** (Tohoku University)
Algebraic cycles with modulus and some relative K-groups

November 9, Friday

10:00–11:00 **Gregory, Oliver** (Technical University of Munich)
Overconvergent Hyodo-Kato cohomology for semistable varieties

11:15–12:15 **Nakamura, Kentaro** (Saga University)
Construction of zeta element for rank two universal deformation

14:00– Free discussion

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Organizers: Tomoyuki Abe, Yukiyoshi Nakkajima, Atsushi Shiho, Nobuo Tsuzuki