

岩澤理論ミニ勉強会

日時 2009年4月2日(木) 9:30~17:00
場所 京都大学理学研究科数学教室
理学部3号館 セミナー室 305室

プログラム

9:30~11:00 加藤和也 (京都大学)

Introduction to non-commutative Iwasawa theory

Abstract: *This is an introduction to non-commutative Iwasawa theory of motives, mainly basing on the paper “T. Fukaya and K. Kato, A formulation of conjectures on p -adic L -functions in non-commutative Iwasawa theory” Amer. Math. Soc. Transl. (2006). I explain the non-commutative Iwasawa main conjecture for general motives.*

11:15~12:15 青木美穂 (岡山理科大学)

K -groups of rings of algebraic integers and Iwasawa theory

Abstract: *The K -groups and étale cohomology groups of the rings of algebraic integers are closely connected with some classical conjectures on the number theory. In this talk, we will discuss the relations from the viewpoint of Iwasawa theory.*

13:30~15:00 Kazim Buyukboduk (Max-Planck 研究所/Koc 大学)

Euler systems of rank r and their Kolyvagin systems

Abstract: *For a p -adic Galois representation T , I will devise an Euler system/Kolyvagin system machinery which as an input takes an Euler system of rank r (in the sense of Perrin-Riou), and gives a bound on the Bloch-Kato Selmer group in terms of an $r \times r$ determinant. I will give two fundamental applications of this refinement: The first with the (conjectural) Rubin-Stark elements; and the second with Perrin-Riou's (conjectural) p -adic L -functions.*

15:30~17:00 落合理 (大阪大学)

On conjectural framework for generalized Iwasawa theory

Abstract: *In this talk, we present the idea on the generalization of Iwasawa theory for Galois deformation spaces. We will explain elementary aspects of the theory with several basic examples rather than talking about our own results. For example, we try to discuss the most general conjectural framework for the existence of p -adic L -function and compare it with known examples.*

※ 研究集会に関する最新の情報はホームページ

<http://www.math.kyoto-u.ac.jp/~tetsushi/workshop200904/>
をご覧ください。

世話人・連絡先：伊藤哲史 (京都大学数学教室)