

九大代数学セミナー

日時 2019年11月05日(火) 15:30-16:30 / 16:45-17:45

場所 九州大学伊都キャンパス ウエスト1号館5階 C-501 大講義室

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15:30-16:30

講演者: 千田 雅隆 氏 (東京電機大学)

題目 “Perrin-Riou’s conjecture for elliptic curves”

概要 Perrin-Riou proposed a p -adic analogue of Beilinson’s conjecture which describes a relation between special values of de Rham cohomology valued p -adic L -functions and arithmetic invariants.

In this talk, we will introduce a reformulation of Perrin-Riou’s conjecture for elliptic curves using syntomic regulators and we will give some numerical evidences for Perrin-Riou’s conjecture including critical slope case. This is a joint work with Masanori Asakura.

16:45-17:45

講演者: Winfried Kohnen 氏 (Ruprecht-Karls-Universität Heidelberg)

題目 “ q -product expansions of modular functions”

概要 Modular functions not only have Fourier expansions, but also have q -product expansions. Their exponents often are important to study, too relating to e.g., divisors of modular functions, the existence of η -products, generalized modular forms and most recently to representation numbers of integers as sums of arbitrarily many squares. I intend to survey some of these topics.

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