

Mini-course 2: Lecture 2

Tuesday, October 15, 2019 2:00 PM (1 hour)

Rigid meromorphic cocycles and their RM values.

This lecture will introduce the basic structures that arise in a p-adic approach to explicit class field theory based on the values at real quadratic arguments of rigid meromorphic cocycles.

These values comprise as special cases the

Gross-Stark units arising in Gross's p-adic analogue of the Stark conjecture on p-adic Artin L-series at $s=0$, Stark-Heegner points on (modular) elliptic curves, and singular moduli for real quadratic fields. They can often be expressed in terms of (twisted variants of) the triple product periods covered in Lecture 1.

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