

Mini-course 2: Lecture 3

Thursday, October 17, 2019 2:00 PM (1 hour)

Diagonal restrictions of Hilbert Eisenstein series.

This last lecture explains how the diagonal restrictions of the p-adic family of Hilbert modular Eisenstein series for a real quadratic field can be related to RM values of certain rigid analytic cocycles, leading to an interpretation of Gross-Stark units and Stark-Heegner points as triple product periods. The p-adic deformation theory of the weight one Hilbert Eisenstein series, building on the work of Bellaïche-Dimitrov, Darmon-Lauder-Rotger, and Betina-Dimitrov Pozzi, is a key ingredient in some of the most important arithmetic applications.

Presenter: (UNIVERSITY COLLEGE LONDON), Alice Pozzi