

Pathways Lecture Series in Mathematics, KEIO



Place : Room 14-203, 2nd Floor, Bldg.14
Faculty of Science and Technology
KEIO University

Lecture 1 16:30 - 18:00 November 8, 2007, (Thursday)

Lecture 2 16:30 - 18:00 November 9, 2007, (Friday)

Lecture 3 10:45 - 12:15 November 10, 2007, (Saturday)

On the p-adic local Langlands correspondance

The p-adic Langlands program is still in infancy, but the case of $\text{GL}_2(\mathbb{Q}_p)$ is rather well understood by now. In my first talk, I will explain where the question comes from and what a p-adic local Langlands correspondance (for $\text{GL}_2(\mathbb{Q}_p)$) is good for. In my second talk, I will construct a functor from representations of $\text{GL}_2(\mathbb{Q}_p)$ to representations of the absolute Galois group of \mathbb{Q}_p that realizes the p-adic local Langlands correspondance, and in my third talk I will explain how to use this functor to study both sides of the correspondance.