"In theory, there is no difference between theory and practice. But, in practice, there is."

-Jan L. A. van de Snepscheut

The Trivial Notions Seminar

Proudly Announces

Geometric class field theory after Deligne

A talk by

Justin Campbell

Abstract

Let X be a smooth projective curve over a finite field. Geometric class field theory classifies abelian covers of X: for example, pulling back the Lang isogeny of the Jacobian of X along an Abel-Jacobi map gives such a cover. In the 1950s Lang and Rosenlicht proved that all unramified abelian covers of X can be obtained from these in a simple way, then around 1974 Deligne found a streamlined proof of this result using ℓ-adic local systems. I will explain Deligne's proof, giving necessary background along the way.

Thursday September 26$^{\text{th}}$, at 1:00 pm

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