"Certainly the best times were when I was alone with mathematics, free of ambition and pretense, and indifferent to the world."

-Robert Langlands

The Trivial Notions Seminar
Proudly Announces

Local transfer and Langlands correspondence

A talk by

Cheng-Chiang Tsai

Abstract

The (conjectural) local Langlands correspondence is a finite-to-one map from the set of irreducible admissible representations of a (real or p-adic) group G to the set of certain homomorphisms from the Weil group to the L-group ${}^LG$. The fibers of this map are called L-packets. Given a (L-)homomorphism ${}^LH \to {}^LG$, the L-packets of G and that of H should be somehow related, especially in the special case of *endoscopy transfer*. In this talk, after a brief introduction to the local Langlands correspondence, we investigate the case of representations of $SL(2,\mathbb{R})$ and its endoscopic groups, and see how the prediction of local Langlands correspondence get translated into beautiful identities among characters of representations of $SL(2,\mathbb{R})$ and its endoscopic groups. If time goes well, I shall talk about transfer as a statement on orbital integrals and how it is based on the fundamental lemma.

Thursday Feburary 13$^{\text{th}}$, at 12:00 pm
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