

# COLLOQUIUM

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## INVARIANTS OF L-PARAMETERS BETWEEN P-ADIC INNER FORMS

### **[ABSTRACT]**

The local Langlands correspondence predicts a relationship between irreducible complex representations and certain continuous homomorphisms, so-called L-parameters. The discovery of such a relationship provides new approaches to study the representations. After a tour of basic related theories, I will introduce the local Langlands correspondence for p-adic groups. Bringing in the notion of a p-adic inner form, I will then discuss some invariant properties governed by L-parameters between p-adic inner forms. At the end of the talk, I will describe my recent work with D. Goldberg on the invariance of R-groups for classical groups.