

COLLOQUIUM

Kwangho Choiy

Department of Mathematics,
SOUTHERN ILLINOIS UNIVERSITY

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Finite Group Theory and Local Langlands Conjecture

[ABSTRACT]

The local Langlands conjecture for p -adic groups partitions the infinite set of equivalence classes of irreducible smooth complex representations of the p -adic groups into finite subsets whose internal structures are conjecturally interpreted in terms of irreducible representations of certain finite groups (S -groups). As a part of the local Langlands conjecture, decompositions of tempered parabolic inductions into irreducible constituents are governed by certain finite groups (R -groups). In this context, we shall discuss various roles of finite group theory in the far-reaching local Langlands conjecture for p -adic groups.