

COLLOQUIUM

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Parabolically Induced Banach Space Representations of P-adic Groups

[ABSTRACT]

The Langlands program, introduced by Prof. Robert Langlands (1967), is about the connection between number theory and geometry which is not highly obvious. Then he introduced local Langland conjectures as part of it. There are many different groups over many different fields for which these conjectures can be stated. The one version is p-adic Langlands correspondence. Our research project focuses on developing the theory of the p-adic Banach space representations of reductive algebraic group over non-archimedean local fields. Such representations play a fundamental role in the p-adic Langlands program. More specifically, we study parabolically induced representations. Parabolic induction is a basic tool in representation theory. Our goal is to describe parabolically induced representations in terms of tensor products over Iwasawa modules.