School of Mathematics Tata Institute of Fundamental Research

Mathematics Colloquium

Speaker	:	Hengfei Lu
Affiliation	:	TIFR, Mumbai
Title	:	The Prasad conjecture for $PGSp(4)$
Date & Time	:	Thursday, 16 November, 2017 at 04.00 p.m.
Venue	:	Lecture Room (AG-69)

Abstract

Period Problem is one of the most popular interesting problems in recently years, such as the Gan-Gross-Prasad conjectures. In this talk, we mainly focus on the local period problems, so called the relative local Langlands programs. Given a quadratic local field extension E/Fand a quasi-split reductive group G defined over F with associated quadratic character χ_G , let π be a smooth representation of G(E). Assume the Langlands-Vogan conjecture, Prof. Prasad gives a precise description for the dimension dim Hom_{G(F)}(π, χ_G). We verify this conjecture if π is a discrete series representation and G = PGSp(4).

Vivek V. Vengurlekar

November 10, 2017