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/F and 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 $\dim \mathrm{Hom}_{G(F)}(\pi, \chi_G)$. We verify this conjecture if π is a discrete series representation and $G = PGSp(4)$.

Vivek V. Vengurlekar

November 10, 2017