

Department of Mathematics, BGU

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# AGNT

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*On Wednesday, November ,27 2019*

*At 15:10 – 16:25*

*In 101-*

Hengfei Lu (Weizmann)

will talk about

## **The Prasad conjecture**

Abstract: Period Problem is one of the most popular interesting problems in recent years, such as the Gan-Gross-Prasad conjectures. In this talk, we mainly focus on the local period problems, so called the relative Langlands programs. Given a quadratic local field extension  $E/F$  and a quasi-split reductive group  $G$  defined over  $F$  with associated quadratic character  $\chi_G$ , let  $\pi$  be an irreducible admissible representation of  $G(E)$ . Assume the Langlands-Vogan conjecture. Dipendra Prasad uses the enhanced L-parameter of  $\pi$  to give a precise description for the multiplicity  $\dim Hom_{G(F)}(\pi, \chi_G)$  if the L-packet  $\Pi_\pi$  contains a generic representation. Then we can verify this conjecture if  $G = \mathrm{GSp}(4)$ .

**Please Note the Unusual Time!**