THE UNIVERSITY  OF HONG KONG

Institute of Mathematical Research
Department of Mathematics

Number Theory Seminar

On branching problems for classical p-adic groups

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Abstract

The local Gan-Gross-Prasad conjectures predict the branching laws for tempered representations of classical groups over local fields in terms of arithmetic data. For GL over p-adic fields, it is a well-known result that every tempered representation of $GL(n-1)$ appears with multiplicity one in a tempered representation of $GL(n)$. Dipendra Prasad suggests homological variations of those branching problems, and in particular, conjectures that there is no higher extension between generic representations of $GL(n+1)$ and $GL(n)$. In this talk, we shall give a positive answer to the question. This is a joint work with Gordan Savin.

Date:	**May 7, 2018 (Monday)**
Time:	**11:00am – 12:00noon**
Venue:	**Room 210, Run Run Shaw Bldg., HKU**

All are welcome