



*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Indecomposable modules for graded Hecke algebras

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Abstract

Graded Hecke algebras were introduced by Lusztig for studying the representation theory of p -adic groups and also independently introduced by Drinfeld for studying the Yangians. The representation theory of graded Hecke algebras has close connections to the local Langlands correspondence and Springer correspondence. The classification of irreducible modules has been extensively studied in the literature. Then it is a natural question in representation theory to understand indecomposable modules of graded Hecke algebras. In this talk, I will first discuss constructions of some indecomposable modules, and then introduce some homological techniques for some related problems and results.

Date: April 20, 2015 (Monday)

Time: 4:00 – 5:00pm

Place: Room 210, Run Run Shaw Bldg., HKU