Lie Groups and Representation Theory Seminar at the University of Tokyo

DATE   April 6 (Tue), 2010, 16:30–18:00

PLACE   Room 126, Graduate School of Mathematical Sciences

SPEAKER   **Shu Kato (**   **)** (Kyoto University)

TITLE   On the characters of tempered modules of affine Hecke algebras of classical type

ABSTRACT   We present an inductive algorithm to compute the characters of tempered modules of an affine Hecke algebras of classical types, based on a new class of representations which we call "tempered delimits". They have some geometric origin in the eDL correspondence.

Our new algorithm has some advantage to the Lusztig-Shoji algorithm (which also describes the characters of tempered modules via generalized Green functions) in the sense it enables us to tell how the characters of tempered modules changes as the parameters vary.

This is a joint work with Dan Ciubotaru at Utah.