Lie Groups and Representation Theory Seminar at the University of Tokyo

リー群論・表現論セミナー

DATE   October 25 (Tue), 2011, 16:30–18:00

PLACE   Room 126, Graduate School of Mathematical Sciences

SPEAKER   **Yoshiki Oshima (大島芳樹)** (the University of Tokyo)

TITLE   Localization of Cohomological Induction

ABSTRACT   Cohomological induction is defined for $(\mathfrak{g}, K)$-modules in an algebraic way and construct important representations such as (Harish-Chandra modules of) discrete series representations, principal series representations and Zuckerman's modules of semisimple Lie groups. Hecht, Milicic, Schmid, and Wolf proved that modules induced from one-dimensional representations of Borel subalgebra can be realized as D-modules on the flag variety. In this talk, we show a similar result for modules induced from more general representations.