Lie Groups and Representation Theory Seminar at the University of Tokyo

DATE   November 20 (Tue), 2007, 16:30–18:00

PLACE   Room 126, Graduate School of Mathematical Sciences

SPEAKER   **Kyo Nishiyama (   )** (Kyoto University)

TITLE   Asymptotic cone for semisimple elements and the associated variety of degenerate principal series

ABSTRACT   Let a be a hyperbolic element in a semisimple Lie algebra over the real number field. Let K be the complexification of a maximal compact subgroup of the corresponding real adjoint group. We study the asymptotic cone of the semisimple orbit through a under the adjoint action by K. The resulting asymptotic cone is the associated variety of a degenerate principal series representation induced from the parabolic associated to a.