Lie Groups and Representation Theory Seminar
at the University of Tokyo

DATE   April 24 (Tue), 2007, 16:30–18:00

PLACE   Room 126, Graduate School of Mathematical Sciences

SPEAKER   **Taro Yoshino (   ) (University of Tokyo)**

TITLE   Existence problem of compact Clifford–Klein forms of the infinitesimal homogeneous space of indefinite Stiefle manifolds

ABSTRACT   The existence problem of compact Clifford-Klein forms is important in the study of discrete groups. There are several open problems on it, even in the reductive cases, which is most studied. For a homogeneous space of reductive type, one can define its 'infinitesimal' homogeneous space. This homogeneous space is easier to consider the existence problem of compact Clifford–Klein forms.

In this talk, we especially consider the infinitesimal homogeneous spaces of indefinite Stiefel manifolds. And, we reduce the existence problem of compact Clifford–Klein forms to certain algebraic problem, which was already studied from other motivation.