Lie Groups and Representation Theory Seminar at the University of Tokyo

DATE   May 27 (Tue), 2008, 16:30–18:00

PLACE   Room 126, Graduate School of Mathematical Sciences

SPEAKER **Atsumu Sasaki (   )** (Waseda University)

TITLE   Visible actions on multiplicity-free spaces

ABSTRACT The holomorphic action of a Lie group G on a complex manifold D is called strongly visible if there exist a real submanifold S such that $D' := G \cdot S$ is open in D and an anti-holomorphic diffeomorphism σ which is an identity map on S and preserves each G-orbit in D'.

In this talk, we treat the case where D is a multiplicity-free space V of a connected complex reductive Lie group $G(C)$, and show that the action of a compact real form of $G(C)$ on V is strongly visible.