

Lie Groups and Representation Theory Seminar at the University of Tokyo

リー群論・表現論セミナー

- DATE June 8 (Tue), 2010, 17:00–18:30
- PLACE Room 126, Graduate School of Mathematical Sciences
- SPEAKER **Soji Kaneyuki (金行壮二)** (Sophia University)
- TITLE Automorphism groups of causal Makarevich spaces
- ABSTRACT Let G^\wedge be a simple Lie group of Hermitian type and U^\wedge be a maximal parabolic subgroup of G^\wedge with abelian nilradical. The flag manifold $M^\wedge = G^\wedge/U^\wedge$ is the Shilov boundary of an irreducible bounded symmetric domain of tube type. M^\wedge has the G -invariant causal structure. A causal Makarevich space is, by definition, an open symmetric G -orbit M in M^\wedge , endowed with the causal structure induced from that of the ambient space M^\wedge , G being a reductive subgroup of G^\wedge . All symmetric cones fall in the class of causal Makarevich spaces. In this talk, we determine the causal automorphism groups of all causal Makarevich spaces.