

**Lie Groups and Representation Theory Seminar  
at the University of Tokyo**

**リー群論・表現論セミナー**

- DATE May 25 (Fri), 2007, 14:30–16:00
- PLACE Room 122, Graduate School of Mathematical Sciences
- SPEAKER **Nobutaka Boumuki** (坊向伸隆)  
(Osaka City University, Advanced Mathematical Institute)
- TITLE The classification of simple irreducible pseudo-Hermitian symmetric spaces: from a view of elliptic orbits
- ABSTRACT In this talk, we call a special elliptic element an *Spr*-element, we create an equivalence relation on the set of *Spr*-elements of a real form of a complex simple Lie algebra, and we classify *Spr*-elements of each real form of all complex simple Lie algebras under our equivalence relation. Besides, we demonstrate that the classification of *Spr*-elements under our equivalence relation corresponds to that of simple irreducible pseudo-Hermitian symmetric Lie algebras under Berger's equivalence relation. In terms of the correspondence, we achieve the classification of simple irreducible pseudo-Hermitian symmetric Lie algebras without Berger's classification.