

Lie Groups and Representation Theory Seminar at the University of Tokyo

リー群論・表現論セミナー

SPEAKER **Yuichiro Tanaka** (田中雄一郎) (the University of Tokyo)

DATE October 29 (Tue), 2013, 16:30–18:00

PLACE Room 126, Graduate School of Mathematical Sciences

TITLE 直交群の無重複表現の幾何と可視的な作用

ABSTRACT For a connected compact simple Lie group of type B or D, we find pairs (V_1, V_2) of irreducible representations of G such that the tensor product representation $V_1 \otimes V_2$ is multiplicity-free by a geometric consideration based on a notion of visible actions on complex manifolds, introduced by T. Kobayashi. The pairs we find exhaust all the multiplicity-free pairs by an earlier combinatorial classification due to Stembridge.