

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

リ一群論・表現論セミナー

- DATE July 28 (Tue), 2015, 17:00–18:30
- PLACE Room 122, Graduate School of Mathematical Sciences
- SPEAKER **Fabian Januszewski** (Karlsruhe Institute of Technology)
- TITLE On (\mathfrak{g}, K) -modules over arbitrary fields and applications to special values of L -functions
- ABSTRACT I will introduce \mathfrak{g}, K -modules over arbitrary fields of characteristic 0 and discuss their fundamental properties and constructions, including Zuckerman functors. This may be applied to produce models of certain standard modules over number fields, which has applications to special values of automorphic L -functions, and also furnishes the space of regular algebraic cusp forms of $GL(n)$ with a natural global Q -structure.