

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

リー群論・表現論セミナー

- DATE June 17 (Tue), 2014, 16:30–18:00
- PLACE Room 126, Graduate School of Mathematical Sciences
- SPEAKER **Pablo Ramacher** (Marburg University)
- TITLE Singular equivariant asymptotics and the momentum map.
Residue formulae in equivariant cohomology.
- ABSTRACT Let M be a smooth manifold and G a compact connected Lie group acting on M by isometries. In this talk, we study the equivariant cohomology of the cotangent bundle of M , and relate it to the cohomology of the Marsden–Weinstein reduced space via certain residue formulae. In case of compact symplectic manifolds with a Hamiltonian G -action, similar residue formulae were derived by Jeffrey, Kirwan et al.