

Adam Mickiewicz University
Faculty of Mathematics and Computer Science

GEOMETRY AND TOPOLOGY SEMINAR

10:15 AM, Tuesday, December 12, 2017
B1-38, Collegium Mathematicum

Speaker: dr Janusz Przewocki (Adam Mickiewicz University)

Title: Algebraic properties of the canonical homomorphism from singular to Milnor-Thurston homology

Abstract:

Milnor-Thurston homology theory is a version of singular homology where chains are defined to be measures instead of finite linear combinations of simplices. We investigate behaviour of this theory for spaces with bad local properties.

The question of injectivity of the canonical homomorphism from singular theory leads to interesting questions about commutator length in free groups. Some results obtained in this direction and some still open problems will be presented.