

Adam Mickiewicz University
Faculty of Mathematics and Computer Science

GEOMETRY AND TOPOLOGY SEMINAR

9 AM, Friday, Oct 28, 2016
B1-37, Collegium Mathematicum

Speaker: José Gabriel Carrasquel Vera (Université Catholique de Louvain)

Title: Rational homotopy theory for Schwarz's sectional category

Abstract:

We will give an introduction to rational homotopy theory and discuss how these techniques can be applied to give algebraic lower bounds for Schwarz's sectional category and, in particular, for Farber's topological complexity. We will also give a generalisation of the Félix-Halperin theorem for rational Lusternik-Schnirelmann category in the more general context of sectional category.