

Adam Mickiewicz University
Faculty of Mathematics and Computer Science

GEOMETRY AND TOPOLOGY SEMINAR

17:15, Thursday, December 14, 2017

B1-37, Collegium Mathematicum

Speaker: prof. dr hab. Robert A. Wolak (Jagiellonian University)

Title: Geometric theory of navigation - Finsler's geometry

Abstract:

The beginnings of the rigorous mathematical approach to the navigation problems can be attributed to E. Zermelo: E. Zermelo, Uber das Navigationsproblem bei ruhender oder veranderlicher windverteilung. Z. Angew. Math. Mech. 11 (1931), No. 2, 114-124. In the talk, we will give a short review of modern methods of solving these problems. The main emphasis will be put on geometrical methods involving Finsler metrics. The theoretical part will be complemented with practical examples.