

**Adam Mickiewicz University**  
**Faculty of Mathematics and Computer Science**

GEOMETRY AND TOPOLOGY SEMINAR

1:45 PM, Wednesday, October 24, 2018  
B2-38, Collegium Mathematicum

**Speaker:** Piotr Mizerka (Adam Mickiewicz University)

**Title:** **Nonexistence of smooth one fixed point actions of finite groups  
on low-dimensional spheres**

**Abstract:**

In this talk we focus on smooth one fixed point actions of finite groups on low-dimensional spheres. The algebraic characterization of groups admitting such actions is already known - these are so called Oliver groups. We show nonexistence of one fixed point actions of several such groups for spheres of particular dimensions. For obtaining the results, the GAP software was used. Joint work with Agnieszka Borowiecka.