

APRIL 1 - JULY 15

IMPAN, WARSAW

SIMONS SEMESTER

SEMINAR

WEDNESDAY, 10.07.2019

12:00 - 12:50

ROOM 403

ŚNIADECKICH 8

00-656 WARSZAWA

GEOMETRIC AND ANALYTIC GROUP THEORY

Jakub Gismatullin (IMPAN and Uniwersytet Wrocławski)

Metric ultraproduct of groups — simplicity and amenability

Abstract:

During my talk I will explain metric ultraproduct construction of groups, equipped with invariant metric. Its importance to group theory became apparent recently and they are intensively studied. I will concentrate, in this context, on simplicity and amenability of metric ultraproducts of groups. I will explain, in elementary terms, both (non)uniform metric amenability and uniform metric simplicity of groups. Examples are: some classes of linear groups which are uniformly metric simple and Thompson group, which is not-uniformly metric amenable. These generalize, respectively, the previously studied notions of uniform amenability and uniform simplicity

