

APRIL 1 - JULY 15

IMPAN, WARSAW

SIMONS SEMESTER

GEOMETRIC AND ANALYTIC GROUP THEORY

SEMINAR

WEDNESDAY, 03.07.2019

14:00-14:50

ROOM 403

ŚNIADECKICH 8

00-656 WARSZAWA

Kang Li (IMPAN)

Rigidity of l^p -uniform Roe algebras

Abstract: l^2 uniform Roe algebras are C^* -algebras associated to discrete metric spaces and they encode the coarse (or large-scale) geometry of the underlying metric spaces, and they have been well-studied, providing a link between coarse geometry of metric spaces and operator algebra theory.

In this talk, I will present some very recent work on the rigidity problem of l^p -uniform Roe algebras for p in $[1, \infty)$. Using Lamperti's theorem, the rigidity problem has been completely settled by Yeong Chyuan Chung and me when p is different from 2.

If time permits, I will discuss on the $p=2$ case and raise some relevant open questions.

