

APRIL 1 - JULY 15

IMPAN, WARSAW

SIMONS SEMESTER

GEOMETRIC AND ANALYTIC GROUP THEORY

SEMINAR

WEDNESDAY, 08.05.2019

14:10-15:00

ROOM 321

ŚNIADECKICH 8

00-656 WARSZAWA

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A quasi-local characterisation of Roe algebras

Abstract: Roe algebras are C^* -algebras associated to metric spaces, which encode their large scale structure. These algebras play a central role, bridging geometry, topology and analysis together. Recently, Spakula and Tikuisis gave a new quasi-local perspective on Roe algebras, provided the underlying spaces have straight finite decomposition complexity. In this talk, I will introduce the related notions and history, and show our strengthened result under a weaker condition, Yu's Property A. If time permits, I will also introduce their l^p -analog for $p \in \{0\} \cup [1, \infty]$. This is a joint work with Jan Spakula.

