

Seminarium geometrów

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Structure and rigidity of ℓ^p uniform Roe algebras

Abstract: Roe C^* -algebras encode the coarse geometry of metric spaces, and there has been a fruitful interplay between coarse geometry and operator algebra theory via these algebras. They also feature in the coarse Baum-Connes conjecture. In this talk, we will consider the ℓ^p analog of the uniform Roe algebra, and see that when $p \neq 2$, an isometric isomorphism between the algebras associated to two metric spaces with bounded geometry gives rise to a bijective coarse equivalence between the metric spaces even without assuming Yu's property A. We will also discuss the structure of these algebras when the metric space is non-amenable. This is joint work with Kang Li.