

Non-classifiability of automorphisms of C^* -algebras up to unitary equivalence

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Descriptive Set Theory and Functional Analysis
(BIRS)

After a brief introduction to descriptive set theory and classification, I will present the results of my recent research on the complexity of the relation of unitary equivalence between automorphisms of a given separable unital C^* -algebra. In particular, I will show that this relation is not classifiable by countable structures for all simple separable unital C^* -algebras.