

# Unitary equivalence of automorphisms of $C^*$ -algebras

May 9th, 2013  
2013 North American Annual ASL Meeting  
University of Waterloo

I will present a dichotomy result for the complexity of the relation of unitary equivalence of automorphisms of a separable unital  $C^*$ -algebra  $A$ : Either such relation is smooth (which happens exactly when  $A$  has continuous trace) or it is not classifiable by countable structures.