

Chris Bruce

Outer automorphism groups of topological full groups

I will speak about ongoing work with Xin Li and Takuya Takeishi, where we are studying the outer automorphism groups of topological full groups (equivalently, the outer automorphism groups of ample groupoids). After introducing these outer groups, I will focus on the example class coming from shifts of finite type. These are the outer automorphism groups of Cuntz–Krieger groupoids, which includes the outer automorphism groups of the Higman–Thompson groups. We prove that these outer automorphism groups are C^* -simple (an extreme case of non-amenability). I will also briefly mention expected results for the outer automorphism groups of the groupoid models for ring C^* -algebras of rings of algebraic integers, where the situation is very different.