

Conjugacy and cocycle conjugacy of automorphisms of \mathcal{O}_2 are not Borel

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Workshop on C*-algebras and Dynamical Systems
(Fields Institute)

I will present the result, obtained in joint work with Eusebio Gardella, that the relations of conjugacy and cocycle conjugacy of automorphisms of the Cuntz algebra \mathcal{O}_2 are not Borel. I will focus on the motivations and implications of such result, and I will provide the main ideas of the proof. No previous knowledge of Borel complexity theory will be assumed.