Finite type Polish groups

Hiroshi Ando

Abstract: Popa introduced a class of finite type Polish group. A Polish group is called of finite type if is embeddable into the unitary group of some II_1 factor. These groups are the target groups of his famous cocycle superrigidity theorem. Popa posed a following question: if a Polish group G has a two-sided invariant metric and is embeddable into the unitary group of a Hilbert space, is G necessarily of finite type? In this talk I present partial positive answers to the question.

The introductory talk by Federico Berlai.